Access DB# 64892

SEARCH REQUEST FORM

Scientific and Technical Inf rmation Center

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Please provide a detailed statement of the Include the elected species or structures, I utility of the invention. Define any terms known. Please attach a copy of the cover Title of Invention:	that may have a special m sheet, pertinent claims, and	nyms, and registry numbers, and registry numbers, and realevers or relevers of abstract.	d combine with the concept ant citations, authors, etc. if	OF >
Inventor (please provide full hames):	Paneta L. Z	eitlin, Saul Br	isifow	
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Date Searcher Picked Up: Date Completed: 5/8/02	Bibliographic	Dr.Link		
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Online Time:	Other	Other (specify)		
PTO-1590 (8-01)				

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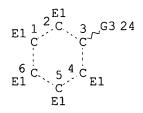
FILE COVERS 1907 - 8 May 2002 VOL 136 ISS 19 FILE LAST UPDATED: 6 May 2002 (20020506/ED)

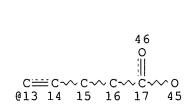
This file contains CAS Registry Numbers for easy and accurate substance identification.

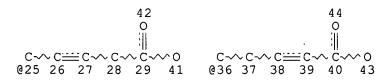
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GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

L35 4532 SEA FILE=REGISTRY SSS FUL L33

L36 STR

C=C~C~C~S @13 14 15 16 17

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GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

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VAR G3=13/25/36

NODE ATTRIBUTES:

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HCOUNT IS E1 AT 4
HCOUNT IS E1 AT 5
HCOUNT IS E1 AT 6
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

L39

STR

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DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE L46 STR

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GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L49 11858 SEA FILE=REGISTRY SSS FUL L36 OR L38 OR L39	OR L46	L39	OR	L38	OR	L36	FUL	SSS	FILE=REGISTRY	SEA	11858	L49
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15572 SEA FILE=REGISTRY ABB=ON PLU=ON L35 OR L49

L51

8713 SEA FILE=HCAPLUS ABB=ON PLU=ON L50 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L51(L)(?CYSTIC(5A)FIBRO?) L54

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L33
           4532 SEA FILE=REGISTRY SSS FUL L33
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L50
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L51
             47 SEA FILE=HCAPLUS ABB=ON PLU=ON L51(L)(LUNG OR (SURFACTANT OR
L58
                TRANSMEMBRAN?) (5A) PROTEIN OR ?RESPIR? OR CF OR CFTR OR LIVER
                OR ?TRYPSIN? OR ?ALZHEIM? OR ?MARFAN? OR ?CHOLESTEROL? OR
                TAY(W)SACH?)
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L58 ANSWER 1 OF 47 HCAPLUS COPYRIGHT 2002 ACS
                         2002:251850 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         136:273206
                         Combination therapy for treating hypercholesterolemia
```

TITLE:

using a bile acid sequestrant polymer and a

cholesterol-lowering agent

INVENTOR(S): Huval, Chad Cori; Holmes-Farley, Stephen Randall;

Petersen, John S.; Dhal, Pradeep K.

Geltex Pharmaceuticals, Inc., USA PATENT ASSIGNEE(S):

SOURCE: U.S., 12 pp., Cont.-in-part of U.S. 6,083,497.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	ZA 9809673 US 6248318 RITY APPLN. INFO.	B1:	20010619 US	US 1999-311103 ZA 1998-9673 US 2000-521975 1997-964536 A2	19981023 20000309 19971105
AB				lemia and atheros	
				dministering to a	
	polydiallylamine a pharmaceutical highly potent bi current com. pro polydiallylamine 0.10-0.25% in fe	polym ly acc le aci ducts. was p ed it	er and a choles eptable carrier d sequestrant, For example, repd. and when induced fecal e	Crosslinked po with in vivo acti epichlorohydrin-c given to hamster excretion of bile	ent, and optionally lydiallylamine is a vity greater than

7236-47-7, .beta.-Benzalbutyramide IT

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination of polydiallylamine polymer as bile acid sequestrant and cholesterol-lowering agent for treating hypercholesterolemia and atherosclerosis)

REFERENCE COUNT: THERE ARE 108 CITED REFERENCES AVAILABLE FOR 108 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L58 ANSWER 2 OF 47 HCAPLUS COPYRIGHT 2002 ACS 2000:824114 HCAPLUS ACCESSION NUMBER: DOCUMENT NUMBER: 134:530 TITLE: Polydiallylamine bile acid sequestranthypocholesterolemic agent combination for treating hypercholesterolemia Huval, Chad Cori; Holmes-Farley, Stephen Randall; INVENTOR(S): Petersen, John S.; Dhal, Pradeep K. Geltex Pharmaceuticals, Inc., USA PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 33 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. -----WO 2000069445 A1 20001123 WO 1999-US10568 19990513 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG A1 20001205 AU 9939880 AU 1999-39880 19990513 PRIORITY APPLN. INFO.: WO 1999-US10568 A 19990513 Methods are provide for treating hypercholesterolemia and atherosclerosis, and reducing serum cholesterol in a mammal. The methods of the invention comprise administering to a mammal a first amt. of a bile acid sequestrant compd. which is an unsubstituted polydiallylamine polymer and a second amt. of a cholesterol-lowering agent. The first and second amts. together comprise a therapeutically effective amt. The invention further provides pharmaceutical compns. useful for the treatment of hypercholesterolemia and atherosclerosis, and for reducing serum cholesterol. pharmaceutical compns. comprise a combination of a first amt. of an unsubstituted polydiallylamine polymer compd. and a second amt. of a cholesterol-lowering agent. The first and second amts. comprise a therapeutically effective amt. The pharmaceutical compns. of the present invention may optionally contain a pharmaceutically acceptable carrier. TΤ 7236-47-7, .beta.-Benzalbutyramide RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (polydiallylamine bile acid sequestrant-hypocholesterolemic agent combination for treating hypercholesterolemia) REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L58 ANSWER 3 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:601227 HCAPLUS DOCUMENT NUMBER: 133:296331 TITLE:

Synthesis of 3-arylpropenyl, 3-arylpropynyl and

3-arylpropyl 2-azetidinones as cholesterol absorption

inhibitors: application of the palladium-catalyzed

arylation of alkenes and alkynes

AUTHOR(S): Rosenblum, Stuart B.; Huynh, Tram; Afonso, Adriano;

Davis, Harry R., Jr.

CORPORATE SOURCE: Chemistry Department, Schering-Plough Research

Institute, Kenilworth, NJ, 07033, USA Tetrahedron (2000), 56(31), 5735-5742 CODEN: TETRAB; ISSN: 0040-4020

PUBLISHER: Elsevier Science Ltd.

Ι

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:296331

SOURCE:

p-C6H4-OMe

AB A series of N,2-diaryl-3-(3'-arylpropenyl)-2-azetidinones and N, 2-diaryl-3-(3'-arylpropynyl)-2-azetidinones were prepd. by the palladium-catalyzed arylation of I or by arylation of 4-pentenoic acid, or via Et 4-pentynoate followed by 2-azetidinone ring construction. These unsatd. 2-azetidinones were transformed to their satd. analogs by catalytic hydrogenation. These unsatd. and satd. synthesized azetidinones were evaluated for their biol. activity as cholesterol absorption inhibitors in hamsters.

IT 300662-69-5P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of 3-arylpropenyl-, 3-arylpropynyl- and 3-arylpropyl-2-

azetidinones as cholesterol absorption inhibitors)

REFERENCE COUNT: THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS 13 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L58 ANSWER 4 OF 47 HCAPLUS COPYRIGHT 2002 ACS 1998:768050 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

130:52236

TITLE:

Preparation of dihydroxyphthalic acid diethers as squalene synthase inhibitors, their pharmaceutical

uses, and their intermediates

INVENTOR(S):

Ichikawa, Yuichiro; Niizuma, Setsuko; Abe, Masatoshi; Takahashi, Wataru; Ikeda, Tatsuji; Takashio, Kazutoshi

PATENT ASSIGNEE(S):

Nippon Kayaku Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 64 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

SOURCE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND APPLICATION NO. DATE DATE JP 10316617 A2 19981202 JP 1997-141169 19970516

OTHER SOURCE(S):

MARPAT 130:52236

GΙ

$$x^{2}O$$
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 C

The title derivs. I [R = OH: X1, X2 = (un)substituted linear or branched AB C1-20 (un)satd. aliph. hydrocarbyl, (un)substituted C2-8 alkyloxyalkyl, alkenyloxyalkyl, YZ [Y = (un)substituted C1-8 (hydroxy)alkyl, (un) substituted C2-8 alkyloxyalkyl, (un) substituted C2-8 alkylaminoalkyl; Z = (un) substituted aryl] (II); except the case where X1 = X2 = C1-3alkyl, benzyl] and/or their pharmaceutically acceptable salts are prepd. by hydrolyzing I $\{R = OR1, NR2R3; R1-3 = C1-6 \text{ alkyl, } (un) \text{ substituted } C7-10\}$ aralkyl; X1, X2 = same as in II]. II and their salts are useful for treatment of infection, hypercholesterolemia, hyperlipemia, or atherosclerosis. IC50 of 3-farnesyloxy-4-[4-(3phenoxyphenyl)butoxy]phthalic acid (prepn. given) against Aspergillus fumigatus squalene synthase was 0.41 .mu.g/mL. Antifungal activity against A. fumigatus and Candida albicans, and cholesterol formation-inhibiting action of II were also shown.

ΙT 52121-98-9, 1-Iodo-6-phenylhexane 99858-37-4,

(5-Iodopentyl)benzene

RL: RCT (Reactant); RACT (Reactant or reagent) (prepn. of dihydroxyphthalic acid diethers as squalene synthase inhibitors for treatment of fungal infection and

hypercholesterolemia)

L58 ANSWER 5 OF 47 HCAPLUS COPYRIGHT 2002 ACS 1998:660120 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 130:3720

2-azetidinone cholesterol absorption inhibitors: TITLE:

increased potency by substitution of the C-4 phenyl

ring

AUTHOR(S): Vaccaro, Wayne D.; Sher, Rosy; Davis, Harry R., Jr.

CORPORATE SOURCE: Schering-Plough Research Institute, Kenilworth, NJ,

07033-0539, USA

SOURCE: Bioorganic & Medicinal Chemistry (1998), 6(9),

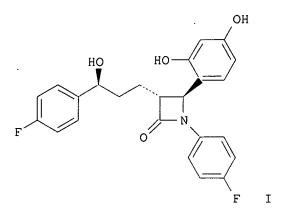
1429-1437

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

GΙ



AΒ SAR studies directed towards the optimization of 2-azetidinone cholesterol absorption inhibitors led to the discovery of I, the most potent

cholesterol absorption inhibitor yet identified.

IΤ 20371-41-9, 5-Phenylvaleryl chloride

RL: RCT (Reactant); RACT (Reactant or reagent)

(effect of substitution of the C-4 Ph ring on 2-azetidinone

cholesterol absorption inhibitors) 14

REFERENCE COUNT:

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2002 ACS L58 ANSWER 6 OF 47 1998:632344 HCAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

129:330578

TITLE:

Beta-lactams derived from the reaction of

phenanthridiones and 11H-dibenzo[b,e]azepin-11-one with phenylvaleryl chloride. Synthesis of fused analogs of the cholesterol absorption inhibitor Sch

48461

AUTHOR(S):

Afonso, Adriano; Rosenblum, Stuart B.; Puar, Mohindar

S.; McPhail, Andrew T.

CORPORATE SOURCE:

Schering-Plough Research Institute, Kenilworth, NJ,

07033, USA

SOURCE:

Tetrahedron Lett. (1998), 39(41), 7431-7434

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 129:330578

GΙ

AΒ Phenanthridine and 9-methoxyphenanthridine and 11H-dibenzo[b,e]azepin-11one were used as the imine components in the ketene-imine .beta.-lactam synthesis to provide the fused tetracyclic .beta.-lactams (I) (R = H, OMe)and (II).

20371-41-9, 5-Phenylpentanoyl chloride ΙT RL: RCT (Reactant)

Ι

(synthesis of fused analogs of the cholesterol absorption inhibitor Sch 48461)

L58 ANSWER 7 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1998:352625 HCAPLUS

DOCUMENT NUMBER: 129:41376

TITLE: Preparation of sugar-substituted 2-azetidinones useful

as hypocholesterolemic agents

INVENTOR(S): Yumibe, Nathan P.; Alton, Kevin B.; Van Heek,

Margaret; Davis, Harry R.; Vaccaro, Wayne D.

PATENT ASSIGNEE(S): Schering Corp., USA

SOURCE: U.S., 18 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5756470 CN 1205707 PRIORITY APPLN. II OTHER SOURCE(S):		19980526 19990120 US RPAT 129:41376	US 1996-741179 CN 1996-199226 1996-741179	19961029 19961029 19961029

AΒ Hypocholesterolemic sugar-substituted 2-azetidinones I (R = H, OH, sugar; R1 = alkylene, cycloalkylene, phenylene, alkenylene; G = sugar residue; Q = bond, spiro group; Ar, Arl = aryl), are disclosed, as well as a method of lowering cholesterol by administering said compds., pharmaceutical compns. contg. them, and the combination of a sugar-substituted 2-azetidinone cholesterol-lowering agent and a cholesterol biosynthesis inhibitor for the treatment and prevention of atherosclerosis. Thus, 1-O-[4-[trans-(3R,4S)-1-(4-fluorophenyl)-2-oxo-3-[3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-oxo-3-[(S)-hydroxy-4-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(A-fluorophenyl)-2-(Afluorophenylpropyl]]-4-azetidinyl]phenyl]-.beta.-D-glucuronic acid was prepd. as anticholesteremic agent 58 % redn. in plasma cholesterol with 3 mg/kg dose in hamsters. 20371-41-9, 5-Phenylvaleryl chloride IT RL: RCT (Reactant) (prepn. of sugar substituted azetidinones useful as hypocholesterolemic agents) L58 ANSWER 8 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1998:168443 HCAPLUS DOCUMENT NUMBER: 128:291977 TITLE: A novel type of structurally simple nonpeptide inhibitors for .alpha.-chymotrypsin. Induced-fit binding of methyl 2-allyl-3-benzenepropanoate to the S2 subsite pocket Kim, Dong H.; Li, Zhi-Hong; Lee, Soo Suk; Park, AUTHOR(S): Jeong-Il; Chung, Sang J. CORPORATE SOURCE: Center for Biofunctional Molecules and Department of Chemistry, Pohang University of Science and Technology, Pohang, 790-784, S. Korea SOURCE: Bioorg. Med. Chem. (1998), 6(2), 239-249 CODEN: BMECEP; ISSN: 0968-0896 PUBLISHER: Elsevier Science Ltd. DOCUMENT TYPE: Journal LANGUAGE: English Unexpectedly, Me and benzyl esters of 2-allyl-3-benzenepropanoic acid were found to be not substrates but potent competitive inhibitors for .alpha.-chymotrypsin. The inhibitory property of the structurally simple nonpeptidic compds. is ascribed to their high binding affinity to the enzyme at the S2 rather than S1 subsite pocket. These inhibitors exist in a flexible form in soln., but as they bind to the enzyme bulky constrained conformers present in a minute concn. play an important role, forming tighter enzyme inhibitor complexes by binding to the large hydrophobic S2 The constrained conformers are thought to result from intramol. CH/.pi. interactions between a vinylic proton and the arom. .pi.-electron cloud in the inhibitor mols. ΙT 205373-53-1P RL: BYP (Byproduct); PREP (Preparation) (inhibition of .alpha.-chymotrypsin by allylbenzenepropanoates) IΤ 205373-47-3P 205373-49-5P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(inhibition of .alpha.-chymotrypsin by allylbenzenepropanoates)

L58 ANSWER 9 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1998:119628 HCAPLUS

DOCUMENT NUMBER: 128:225681

TITLE: Discovery of 1-(4-Fluorophenyl)-(3R)-[3-(4-

fluorophenyl) - (3S) -hydroxypropyl] - (4S) - (4-

hydroxyphenyl)-2-azetidinone (SCH 58235): A Designed,

Potent, Orally Active Inhibitor of Cholesterol

Absorption

Rosenblum, Stuart B.; Huynh, Tram; Afonso, Adriano; AUTHOR(S):

Davis, Harry R., Jr.; Yumibe, Nathan; Clader, John W.;

Burnett, Duane A.

CORPORATE SOURCE:

Department of Discovery Research, Schering-Plough Research Institute, Kenilworth, NJ, 07033-0539, USA

SOURCE:

J. Med. Chem. (1998), 41(6), 973-980 CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

p-RC6H4CHR1 (CH2) 2

AΒ (3R)-(3-Phenylpropyl)-1,(4S)-bis(4-methoxyphenyl)-2-azetidinone, SCH 48461 (I, R = R1 = H, R2 = R3 = OMe), a novel inhibitor of intestinal cholesterol absorption, was recently described by Burnett et al. and demonstrated to lower total plasma cholesterol in man. The potential sites of metab. of SCH 48461 were considered, and the most probable metabolites were prepd. The oral cholesterol-lowering efficacy of the putative metabolites was evaluated in a 7-day cholesterol-fed hamster model for the redn. of serum total cholesterol and liver cholesteryl esters vs. control. The putative metabolite structure-activity relationship (SAR) of 1-(4-fluorophenyl)-(3R)-[3-(4-fluorophenyl)-(3S)hydroxypropy1]-(4S)-(4-hydroxyphenyl)-2-azetidinone, SCH 58235 (I, R = R2)= F, R1 = .beta.-OH, R3 = OH), was designed to exploit activity enhancing oxidn. and to block sites of potential detrimental metabolic oxidn. A series of congeners of SCH 48461 were prepd. incorporating strategically placed hydroxyl groups and fluorine atoms to further probe the SAR of 2-azetidinone cholesterol absorption inhibitors. Through the SAR anal. of a series of putative metabolites of SCH 48461, compd. SCH 58235 was targeted and found to exhibit remarkable efficacy with an ED50 of 0.04 mg/kg/day for the redn. of liver cholesteryl esters in a 7-day cholesterol-fed hamster model.

ΤТ 20371-41-9, Benzenepentanoyl chloride

RL: RCT (Reactant)

(prepn. of 1-(4-fluorophenyl)-(3R)-[3-(4-fluorophenyl)-(3S)hydroxypropyl]-(4S)-(4-hydroxyphenyl)-2-azetidinone (SCH 58235) designed as an inhibitor of cholesterol absorption)

L58 ANSWER 10 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1997:761872 HCAPLUS

DOCUMENT NUMBER:

128:30416

TITLE:

INVENTOR(S):

Use of nonpeptide bradykinin antagonists for treating and preventing chronic fibrogenetic liver diseases,

acute liver diseases and complications thereof Heitsch, Holger; Wagner, Adalbert; Wirth, Klaus;

Hropot, Max; Bickel, Martin

PATENT ASSIGNEE(S): Hoechst A.-G., Germany Eur. Pat. Appl., 36 pp. SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

ZA 9704415

APPLICATION NO. DATE KIND DATE

ZA 1997-4415

_---EP 808628 A2 19971126 EP 1997-108096 19970520

EP 808628 A3 19980114 EP 808628 B1 20000202

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,

SI, FI

DE 19620509 A1 19971127 DE 1996-19620509 19960522 DE 19632042 DE 1996-19632042 19960808 Α1 19980212

DE 19639303 A1 19980326 DE 1996-19639303 19960925 US 5786365 19980728 US 1997-858550 19970519 Α AU 9723511 19971127 AU 1997-23511 A1 19970520

E 20000215 T3 20000601 AT 189389 AT 1997-108096 19970520 ES 2144291 ES 1997-108096 19970520 Α NO 9702311 19971124 NO 1997-2311 19970521

A2 19980217 JP 10045624 JP 1997-131160 19970521 CN 1176102 Α 19980318 CN 1997-113108 19970521 AA 19971122 CA 1997-2205780 19970522 CA 2205780

19971124

BR 9703367 A 19980915 BR 1997-3367 19970522

DE 1996-19620509 A 19960522 PRIORITY APPLN. INFO.: DE 1996-19632042 A 19960808

DE 1996-19639303 A 19960925

19970521

AΒ Forty-five heterocyclic compds. are pictured which act as bradykinin antagonists and which can be used in the title syndromes (e.g., liver cirrhosis and liver fibrosis).

199791-52-1

RL: BAC (Biological activity or effector, except adverse); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (liver diseases treatment by)

L58 ANSWER 11 OF 47 HCAPLUS COPYRIGHT 2002 ACS

1997:761871 HCAPLUS ACCESSION NUMBER:

Α

DOCUMENT NUMBER: 128:30415

Use of nonpeptide bradykinin antagonists for treating TITLE:

and preventing chronic fibrogenetic liver diseases,

acute liver diseases and complications thereof

Heitsch, Holger; Wagner, Adalbert; Wirth, Klaus; INVENTOR(S):

Hropot, Max; Bickel, Martin

Hoechst A.-G., Germany PATENT ASSIGNEE(S): SOURCE: Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ EP 808627 A2 19971126 EP 1997-107624 19970509

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,

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SI, FI
                        19971127
19980212
19980326
19980728
                                        DE 1996-19620509 19960522
    DE 19620509
                    , A1
    DE 19632042
                                       DE 1996-19632042 19960808
                     A1
    DE 19639303
                                       DE 1996-19639303 19960925
                     Α1
    US 5786365
                                       US 1997-858550 19970519
                     Α
                    A1 19971127
    AU 9723511
                                      AU 1997-23511
                                                       19970520
                   E 20000215
T3 20000601
                                      AT 1997-108096 19970520
    AT 189389
    ES 2144291
                                      ES 1997-108096 19970520
                    A 19971124
A 19971124
                                       NO 1997-2311
    NO 9702311
                                                       19970521
    ZA 9704415
                                       ZA 1997-4415
                                                      19970521
                    A2 19980217
    JP 10045624
                                       JP 1997-131160
                                                      19970521
                         19980318
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                                       CN 1997-113108 19970521
                    Α
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    CA 2205780
                    AA 19971122
    BR 9703367
                                       BR 1997-3367
                         19980915
                                                       19970522
                    Α
PRIORITY APPLN. INFO.:
                                     DE 1996-19620509 A 19960522
                                     DE 1996-19632042 A 19960808
                                     DE 1996-19639303 A 19960925
    Forty-five heterocyclic compds. are pictured which act as bradykinin
AB
    antagonists and which can be used in the title syndromes (e.g., liver
    cirrhosis and liver fibrosis).
    199791-52-1
TΨ
    RL: BAC (Biological activity or effector, except adverse); PRP
     (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
       (liver diseases treatment by)
L58 ANSWER 12 OF 47 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                    1997:752738 HCAPLUS
DOCUMENT NUMBER:
                      128:34672
TITLE:
                      Substituted azetidinone compounds useful as
                      hypocholesterolemic agents
INVENTOR(S):
                       Vaccaro, Wayne D.
PATENT ASSIGNEE(S):
                       Schering Corp., USA
                       U.S., 12 pp. Cont.-in-part of U.S. Ser. No. 261,785,
                       abandoned.
                       CODEN: USXXAM
DOCUMENT TYPE:
                       Patent
LANGUAGE:
                       English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:
    PATENT NO.
                KIND DATE
                                      APPLICATION NO. DATE
    PATENT NO. KIND DATE
                                       _____
                                     US 1995-449973 19950525
    US 5688785 A 19971118
    AU 9223980
                    A1 19930223
                                       AU 1992-23980
    AU 658441
                    B2 19950413
                                       ZA 1992-5487
    ZA 9205487
                   Α
                        19930331
                                                      19920721
    ZA 9200.1
EP 596015 AI
                    A1 19940511
                                      EP 1992-916790 19920721
                        19971001
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE
    JP 06508637 T2 19940929
                                      JP 1992-502964
                                                      19920721
    JP 2525125
                    B2 19960814
    LV 10429
                    B 19950820
                                       LV 1992-550
                                                       19921229
    LT 3369
                                       LT 1992-261
                                                       19921229
                    B 19950825
    NO 9400221
US 5688787
                                                       19940121
                    A 19940121
                                        NO 1994-221
                                                      19960119
                    A 19971118
                                       US 1996-588785
PRIORITY APPLN. INFO.:
                                     US 1991-734426 B2 19910723
                                                   B2 19910723
                                     US 1991-734652
```

US 1994-178312 B2 19940111 US 1994-261785 B2 19940620 WO 1992-US5972 A 19920721

OTHER SOURCE(S):

MARPAT 128:34672

$$R^2$$

$$R^2$$

$$R^2$$

$$R^2$$

$$R^2$$

$$R^2$$

$$\begin{array}{c|c} & & & \\ & & & \\ \hline \\ & & & \\ \hline \\ & & & \\ \hline \\ & & & \\ & & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ & & \\ \\ & & \\ \hline \\ \\ & & \\ \hline \\ & \\ \\ & & \\ \hline \\ &$$

AΒ Substituted azetidinone hypocholesterolemic agents I and their pharmaceutically acceptable salts are disclosed [wherein: Ar1 = aryl or R3-substituted aryl; Ar2 = aryl or R4-substituted aryl; R1 = (CH2)2-6, (CH2)eZ(CH2)r (wherein Z = 0, CO, C6H4, NR10, or S(0)0-2, e = 0-5, and r = 0-5, provided that (e + r) = 1-6), C2-6 alkenylene, and (CH2)fV(CH2)g (wherein V = C3-6 cycloalkylene, f = 1-5, and g = 0-5, provided that (f + g) = 1-6); R2 = alkylene-COR5 or CH:CHCOR5; R3, R4 = 1-3 substituents chosen from alkyl, OR6, OCOR6, OCOOR9, O(CH2)1-50R6, OCONR6R7, NR6R7, NR6COR7, NR6CO2R9, NR6CONR7R8, NR6SO2R9, COOR6, CONR6R7, COR6, SO2NR6R7, S(O)O-2R9, O(CH2)1-10COOR6, O(CH2)1-10CONR6R7, alkylene-COOR6, CH:CHCO2R6, CF3, CN, NO2, and halo; R5 = OR or NRR12 (wherein R and R12 = H, alkyl, aryl, and aralkyl); R6, R7, R8 = H, lower alkyl, aryl, and aralkyl; R9 = alkyl, aryl, or aralkyl; R10 = H, alkyl, aralkyl, or COR6]. I are cholesterol absorption inhibitors, which may be used (no data) in combination with cholesterol biosynthesis inhibitors. For example, Me 4-formylbenzoate was condensed with 4-FC6H4NH2 in PhMe under Dean-Stark conditions, and the resulting imine was cyclized in situ with 4-FC6H4O(CH2)3COCl in the presence of Bu3N at reflux to give an 8:1 trans/cis mixt. of azetidinone II. The mixt. was sepd. into the pure isomers by HPLC. At 50 mg/kg orally in hamsters, trans-II gave 28% redn. of serum cholesterol, and 76% redn. of cholesterol esters.

IT 20371-41-9, 5-Phenylvaleryl chloride

RL: RCT (Reactant)

(prepn. of substituted azetidinones as hypocholesterolemic agents)

HCAPLUS COPYRIGHT 2002 ACS L58 ANSWER 13 OF 47

ACCESSION NUMBER:

1997:53684 HCAPLUS

DOCUMENT NUMBER:

126:74591

TITLE:

Preparation of biphenylyloxyalkylarenes as leukotriene

antagonists for the treatment or prevention of

Alzheimer's disease.

INVENTOR(S):

Altstiel, Larry Douglas; Fleisch, Jerome Herbert

PATENT ASSIGNEE(S):

Lilly, Eli, and Co., USA Eur. Pat. Appl., 124 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT	NO.		KI	ND	DATE			. A	PPLI	CATI	N NC	ο.	DATE				
EF	7430	64		 A	1	1996	1120		E:	P 19	96-3	0334	6	1996	0513			
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LI,	LU,	NL,	PT,	SE
WC	9636	347		Α	1	1996	1121		W	O 19	96-U	S677	3	1996	0513			
	W:	AL,	AM,	ΑU,	AZ,	BB,	BG,	BR,	BY,	CA,	CN,	CZ,	EE,	GE,	HU,	IS,	JP,	
		KE,	KG,	KP,	KR,	KZ,	LK,	LR,	LS,	LT,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	
		NO,	NZ,	PL,	RO,	RU,	SD,	SG,	SI,	SK,	ΤJ,	TM,	TR,	TT,	UA,	UG,	UZ,	
		VN,	AM															
	RW:	KE,	LS,	MW,	SD,	SZ,	UG,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML,	MR,	
		NE,	SN,	TD,	TG													
AU	9658	572		Α	1	1996	1129		Α	U 19	96-5	8572		1996	0513			
PRIORIT	Y APP	LN.	INFO	. :					US 1	995-	4431	79		1995	0517			
								1	WO 1	996-1	US67	73		1996	0513			

OTHER SOURCE(S):

MARPAT 126:74591

GΙ

$$R^2$$
 HO $XYZAR^4$ R^3 R^1 I

AΒ Use of compds. having leukotriene antagonist activity, e.g., title compds. [I; R1 = alkyl, alkenyl, alkynyl, alkoxy, alkylthio, halo, R2-substituted Ph; R2, R3 = H, halo, OH, alkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, CF3, dialkylamino; X = 0, S, CO, CH2; Y = 0, CH2; XY =

CH:CH, C.tplbond.C; Z = alkylene; A = bond, O, S, CH:CH, etc.; R4 = (substituted) (hetero)aryl; with provisos] for manuf. of a medicament for treating or preventing Alzheimer's disease is claimed. Thus, 5-hydroxybenzopyran-2-one and 3-(2-ethyl-4-(4-fluorophenyl)-5-benzyloxyphenyl)propyl iodide were stirred with NaH in Me2SO to give 5-[3-(2-ethyl-4-(4-fluorophenyl)-5-benzyloxyphenyl)propoxy]benzopyran-2-one. This was converted to title compd. (II), which displaced [3H]-LTB4 from guinea pig lung membrane prepns. with pKi = 9.01. I drug formulations are given.

IT 14377-66-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. of biphenylyloxyalkylarenes as leukotriene antagonists for the treatment or prevention of **Alzheimer'**s disease)

L58 ANSWER 14 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1996:513507 HCAPLUS

DOCUMENT NUMBER:

125:131668

TITLE:

2-Azetidinone Cholesterol Absorption Inhibitors:

Structure-Activity Relationships on the Heterocyclic

Nucleus

AUTHOR(S):

Clader, John W.; Burnett, Duane A.; Caplen, Mary Ann; Domalski, Martin S.; Dugar, Sundeep; Vaccaro, Wayne; Sher, Rosy; Browne, Margaret E.; Zhao, Hongrong; et

al.

CORPORATE SOURCE:

Schering-Plough Research Institute, Kenilworth, NJ,

07033-0539, USA

SOURCE:

J. Med. Chem. (1996), 39(19), 3684-3693

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

Journal English

LANGUAGE:

As series of azetidinone cholesterol absorption inhibitors related to SCH 48461 was prepd., and evaluated for their ability to inhibit hepatic cholesteryl ester formation in a cholesterol-fed hamster model. Although originally designed as acyl CoA:cholesterol acyltransferase (ACAT) inhibitors, comparison of in vivo potency with in vitro activity in a microsomal ACAT assay indicates no correlation between activity in these 2 models. The mol. mechanism by which these compds. inhibit cholesterol absorption is unknown. Despite this limitation, examn. of the in vivo activity of a range of compds. has revealed clear structure-activity relationships consistent with a well-defined mol. target. The details of these structure-activity relationships and their implications on the nature of the putative pharmacophore are discussed.

IT 20371-41-9, 5-Phenylpentanoyl chloride

RL: RCT (Reactant)

(structure-activity relations of azetidinone **cholesterol** absorption inhibitors)

L58 ANSWER 15 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1996:479041 HCAPLUS

DOCUMENT NUMBER:

125:167712

TITLE:

A simple stereoselective synthesis of the cholesterol

absorption inhibitor (-)-SCH 48461

AUTHOR(S):

Braun, Manfred; Galle, Dietmar

CORPORATE SOURCE:

Institut Organische Chemie Makromolekulare Chemie,

Universitaet Duesseldorf, Duesseldorf, D-40225,

Germany

SOURCE:

Synthesis (1996), (7), 819-820 CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 125:167712

MeO ΙI OMe

AB The cholesterol absorption inhibitor I is synthesized in 91% ee by a stereoselective condensation of doubly deprotonated ester II and imine III. The optical purity of the trans-diastereomer obtained as the major isomer (trans/cis, 94:6) is enhanced to > 98% ee by a single recrystn.

IT 20371-41-9, Benzenepentanoyl chloride

RL: RCT (Reactant)

(prepn. of cholesterol absorption inhibitor (-)-SCH 48461)

HCAPLUS COPYRIGHT 2002 ACS L58 ANSWER 16 OF 47

1996:441078 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

125:184776

TITLE: In vitro metabolism of a potent HIV-protease inhibitor

(141W94) using rat, monkey and human liver S9

Singh, Rominder; Chang, Sai Y.; Taylor, Lester C. E. AUTHOR(S):

CORPORATE SOURCE: Bioanalysis and Drug Metabolism, Glaxo Wellcome Inc.,

Research Triangle Park, NC, 27709, USA

SOURCE: Rapid Commun. Mass Spectrom. (1996), 10(9), 1019-1026

CODEN: RCMSEF; ISSN: 0951-4198

DOCUMENT TYPE: Journal LANGUAGE: English

Compd. 141W94 (Vertex VX478) (3S)-tetrahydro-3-furyl N-[(S,2R)-3-(4-amino-141W94)] (S)-(S,2R)-3-(4-amino-141W94) AB N-isobutylbenzenesulfonamido)-1-benzyl-2-hydroxypropyl] carbamate, is a potent HIV-protease inhibitor and is currently undergoing clin. trials. The purpose of this study was the rapid identification of the phase I and II in vitro metabolite of 141W94 using mass spectrometry. Four different sources of liver S9 fractions were used for studying comparative in vitro metab. of 141W94. They were obtained from Arochlor-induced rat, normal (untreated) rat, cynomolgus monkey and human livers. Selected incubations were supplemented with uridine diphosphate glucuronic acid and the reduced form of glutathione. The predominant species seen in the incubation mixt. was the parent compd. 141W94. Metabolites arising from ring opening to form the diol and carboxylic acid and oxidn. of the THF ring (formation of dihydrofuran) were identified. In addn., of the two monohydroxylated products identified, one resulted from hydroxylation on the aniline ring and the other from hydroxylation at the benzylic position. Two different glucuronides were also obsd. Comparing the three species, very little metab. was seen in the normal (non-induced) rat. The metabolic profile

and extent of metab. with induced rat, monkey and human S9 was similar. Induced rat S9 incubation showed the formation of two unique metabolites that were not seen in non-induced rat, monkey and human S9 fractions. They were the monohydroxylated glucuronide and a carbamate cleavage product. The metabolites were identified using mass spectrometry based on their mol. masses and fragmentation patterns.

TT 180728-05-6

RL: MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(In vitro metab. of a potent HIV-protease inhibitor (141W94) using rat, monkey and human liver S9)

L58 ANSWER 17 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1996:425252 HCAPLUS

DOCUMENT NUMBER:

125:86319

TITLE:

Preparation and formulation of N-(4-

phenylcyclohexyl)alkanamides and analogs as

cholesterol biosynthesis inhibitors

INVENTOR(S):

Maier, Roland; Mueller, Peter; Woitun, Eberhard;

Hurnaus, Rudolf; Mark, Michael; Eisele, Bernhard;

Budzinski, Ralph-Michael

PATENT ASSIGNEE(S):

Dr. Karl Thomae GmbH, Germany

SOURCE:

Ger. Offen., 40 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				-
DE 4437999	A1	19960502	DE 1994-4437999	19941025
OTHER SOURCE(S):	MA	RPAT 125:86319		

GI

AΒ Title compds. [I; R1 = substituted Ph, pyridyl, pyrimidinyl, etc.; Z = (CR2hR2g)n; R2a-R2h = H, alk(en)yl; R3 = alk(en)yl, alkynyl, Ph,cyclohexyl(methyl); R4 = (O- or S-interrupted) alkyl, alkenyl, phenyl(alkyl), etc.; X = 0, S, NPh, NSO2C6H4Me-4; n = 0 or 1] were prepd. Thus, I, e.g., prepd. 4-[4-(2-diethylaminoethoxy)-3-methylphenyl]-Nhexanoyl-N-methylcyclohexylamine gave .gtoreq.50% inhibition of cholesterol biosynthesis in human hepatoma cells at 10-6M in vitro.

IT 178540-24-4P 178540-37-9P 178540-64-2P

178541-15-6P 178541-89-4P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. and formulation of N-(4-phenylcyclohexyl)alkanamides and analogs as cholesterol biosynthesis inhibitors)

L58 ANSWER 18 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1996:404621 HCAPLUS

DOCUMENT NUMBER:

125:58115

TITLE:

Preparation of N-benzyl-N-acylcycloalkylaminederivative cholesterol biosynthesis inhibitors

INVENTOR(S):

Maier, Roland; Woitun, Eberhard; Mueller, Peter; Hurnaus, Rudolf; Mark, Michael; Eisele, Bernhard;

Budzinski, Ralph-Michael

PATENT ASSIGNEE(S):

Dr. Karl Thomae GmbH, Germany

SOURCE:

Ger. Offen., 31 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

Ι

APPLICATION NO. -----

DATE

DE 4438055

Α1 19960502 DE 1994-4438055

19941025

OTHER SOURCE(S):

MARPAT 125:58115

GΙ

$$R^{2e}$$
 R^{2f}
 R^{2g}
 R^{2h}
 R^{2h}
 R^{2e}
 R^{2h}
 R^{2h}

The title compds. [I; R1 = (un)branched alkyl, PhCH2, (un)substituted Ph, AB naphthyl, heterocyclyl, etc.; R2a-R2h = H, alkyl, allyl; R3 = H, (un)branched (un)substituted alkyl, (un)substituted alkenyl, etc.; X = O, S, (un)substituted NH; n = 0-1], useful as cholesterol biosynthesis inhibitors (no data) via the inhibition of HMG-CoA reductase (no data), useful for the treatment of hyperlipidemia (no data) and atherosclerosis (no data), are prepd. and I-contg. formulations presented. Thus, trans-N-benzyl-4-(4-methoxy-3-methylphenyl)cyclohexylamine was amidated with hexanoyl chloride, producing trans-N-benzyl-N-hexanoyl-4-(4-methoxy-3methylphenyl)cyclohexylamine in 96.3% theor. yield.

ΙT 178365-08-7P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of N-benzyl-N-acylcycloalkylamine-deriv. cholesterol biosynthesis inhibitors)

L58 ANSWER 19 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1996:388195 HCAPLUS

DOCUMENT NUMBER: 125:58083

TITLE: Preparation of N-acylphenylcyclohexylamines as

cholesterol biosynthesis inhibitors

Maier, Roland; Woitun, Eberhard; Mueller, Peter; Hurnaus, Rudolf; Mark, Michael; Eisele, Bernhard; INVENTOR(S):

Budzinski, Ralph-Michael

PATENT ASSIGNEE(S): Dr. Karl Thomae GmbH, Germany

SOURCE: Ger. Offen., 24 pp.

CODEN: GWXXBX

Τ

DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE DE 4438020 A1 19960502 DE 1994-4438020 19941025

MARPAT 125:58083 OTHER SOURCE(S):

GT

NR4COR5 R6

AB Title compds. [I; R = (CH2)nNR1R2; R1,R2 = H, alkyl, acyl; NR1R2 =pyrrolidino, piperidino, morpholino; R3, R6 = H or alkyl; R4 = (cyclo)alkyl, allyl; Ph, etc.; R5 = (phenyl)alk(en)yl, cycloalkyl, Ph, naphthyl, etc.; n = 0-3]. Thus, trans-N-acetyl-N-benzyl-4-(4diethylaminomethylphenyl)cyclohexylamine, e.g., gave >50% inhibition of cholesterol biosynthesis in human hepatoma cells in vitro.

178162-88-4P 178163-33-2P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of N-acylphenylcyclohexylamines as cholesterol biosynthesis inhibitors)

L58 ANSWER 20 OF 47 HCAPLUS COPYRIGHT 2002 ACS

1996:214748 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 124:316969

TITLE: Substituted azetidinone compounds useful as

hypocholesterolemic agents

INVENTOR(S): Vaccaro, Wayne Schering Corp., USA PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 31 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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WO 9535277
                       Α1
                            19951228
                                           WO 1995-US7117
                                                             19950615
             AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG,
             KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG,
             SI, SK, TJ, TM, TT, UA, UZ, VN
         RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
             LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
             SN, TD,
                     ΤG
                                           CA 1995-2191455 19950615
    CA 2191455
                       AA
                            19951228
                                                             19950615
    AU 9529430
                                           AU 1995-29430
                       A1
                            19960115
    EP 766667
                            19970409
                                           EP 1995-925237
                       A1
                                                             19950615
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE
                                           JP 1995-502289
     JP 10501811
                       T2
                            19980217
                                                             19950615
PRIORITY APPLN. INFO.:
                                         US 1994-261785
                                                        A 19940620
                                        WO 1995-US7117
                                                          W 19950615
                         MARPAT 124:316969
OTHER SOURCE(S):
GΙ
```

$$Ar^{1}R^{1}$$
 NAr^{2}
 R^{2}
 $CH = CHCO_{2}Me$
 Ph
 R^{2}
 R^{2}

AB Substituted azetidinone hypocholesterolemic agents are disclosed, specifically I and their pharmaceutically acceptable salts [wherein Arl, Ar2 = (un)substituted aryl; R1 = (CH2)q, (CH2)eZ(CH2)r, C2-6 alkenylene, (CH2)fV(CH2)g; q = 2-6; Z = 0, C0, C6H4, NR10, S(0)0-2; e, r = 0-5, provided that (e + r) = 1-6; V = C3-6 cycloalkylene; f = 1-5; g = 0-5, provided that (f + g) = 1-6; R2 = (lower alkylene)COR5 or (CH:CH)COR5; R5 = OR or NRR12; R, R12 = H, alkyl, aryl, aralkyl; R10 = H, alkyl, aralkyl or acyl]. Also disclosed are a method of lowering serum cholesterol by administering I or salts, alone or in combination with a cholesterol biosynthesis inhibitor, and pharmaceutical compns. contg. I. Examples include 16 syntheses, 2 formulations, and a bioassay. For instance, Pd(PPh3)4-catalyzed coupling of trans-1-(4-fluorophenyl)-3-(3phenylpropyl)-4-(4-bromo-2-benzyloxyphenyl)-2-azetidinone with Me acrylate in the presence of Et3N at 80.degree. gave 48% title compd. trans-II (X = PhCH2O). The similarly prepd. compd. trans-II (X = H), at a dose of 10 mg/kg orally in hyperlipidemic hamsters, gave a 21% redn. in serum cholesterol, and a 48% redn. in cholesterol esters. ΙT

20371-41-9, 5-Phenylvaleryl chloride

RL: RCT (Reactant)

(starting material; prepn. of azetidinone derivs. as hypocholesterolemics)

L58 ANSWER 21 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:110119 HCAPLUS

DOCUMENT NUMBER: 124:169116

TITLE: Irreversible inhibitions of serine proteases by

peptidyl allylic halide derivatives

AUTHOR(S): Ohba, Tsuyoshi; Ikeda, Eitatsu; Wakayama, Jun; Takei,

Hisashi

CORPORATE SOURCE: Interdisciplinary Grad. Sch. Sci. Eng., Tokyo Inst.

Technol., Yokohama, 226, Japan

SOURCE: Bioorg. Med. Chem. Lett. (1996), 6(3), 219-24

CODEN: BMCLE8; ISSN: 0960-894X

DOCUMENT TYPE: Journal LANGUAGE: English

AB Peptidyl 4-amino-5-phenyl-2-pentenyl bromide and chloride derivs. were active-site directed irreversible inhibitors of .alpha.-chymotrypsin but did not show any irreversible inhibitory activity toward porcine

pancreatic elastase.

IT 173866-63-2P 173866-64-3P 173866-67-6P 173866-68-7P 173866-69-8P 173866-70-1P 173866-71-2P 173866-72-3P 173866-73-4P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic

preparation); BIOL (Biological study); PREP (Preparation)
 (irreversible inhibition of .alpha.-chymotrypsin by
 phenylalanine-based peptidyl allylic halides)

IT 116246-06-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (irreversible inhibition of .alpha.-chymotrypsin by phenylalanine-based peptidyl allylic halides)

L58 ANSWER 22 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1995:403385 HCAPLUS

DOCUMENT NUMBER: 122:151403

TITLE: Treatment of amyloidosis associated with Alzheimer

disease using modulators of protein phosphorylation Buxbaum, Joseph D.; Gandy, Samuel E.; Greengard, Paul

INVENTOR(S): Buxbaum, Joseph D.; Gandy, Samue PATENT ASSIGNEE(S): The Rockefeller University, USA

SOURCE: U.S., 29 pp. Cont.-in-part of U.S. 5,242,932.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				
US 5385915	А	19950131	US 1993-73112	19930607
US 5242932	A	19930907	US 1991-809174	19911217
US 5538983	A	19960723	US 1994-236411	19940429
PRIORITY APPLN. IN	FO.:		US 1990-524202	19900516
			US 1991-809174	19911217
			US 1993-73112	19930607

AB A method is disclosed for regulating phosphorylation of proteins involved in controlling processing or function of key proteins found in intracellular neurofibrillary tangles and extracellular amyloid plaques assocd. with Alzheimer disease, comprising introducing an effective amt.

of a kinase modulator or phosphatase modulator, the modulator capable of increasing or decreasing the rate of proteolytic processing, or modulating the function, of said key proteins. A cell/tissue culture method for screening agents modulating amyloid formation is also disclosed. The effects of e.g. okadaic acid on the prodn. of APPS, the secreted form of amyloid precursor protein, were opposite to those obsd. for .beta./A4 peptide. The reciprocal effects of increased protein phosphorylation on APPS prodn. and .beta./A4 peptide prodn. are consistent with the idea that APPs and .beta./A4 peptide may be derived form 2 competing pathways of APP metab.

IT 34807-41-5, Mezerein

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (protein phosphorylation modulators for **Alzheimer** disease-assocd. amyloidosis treatment)

L58 ANSWER 23 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1993:517027 HCAPLUS

ACCESSION NUMBER: 1993:517027 F
DOCUMENT NUMBER: 119:117027

TITLE: Substituted beta-lactam compounds useful as

hypocholesterolemic agents and processes for their

preparation

INVENTOR(S): Burnett, Duane A.; Clader, John W.; Thiruvengadam,

Tiruvettipuram K.; Tann, Chou Hong; Lee, Junning; McAllister, Timothy; Colon, Cesar; Barton, Derek H.

R.; Breslow, Ronald; et al.

PATENT ASSIGNEE(S): Schering Corp., USA

SOURCE: Eur. Pat. Appl., 98 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

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			PL,	RO,	RU,	SD,	US												
		RW:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	, GF	R, II	ſ, L	JŪ,	MC,	NL,	SE,	BF,	ВJ,
			CF,	CG,	CI,	CM,	GΑ,	GN,	ML,	MR,	, SN), TE), Т	'G					
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	LT	3369			В		1995	0825		-	LT 1	1992-	-261	-		1992	1229		
ì	NO	9400	221		Α		1994	0121]	NO 1	L994-	-221			1994	0121		
PRIOR	ΙΤΥ	APP	LN.	INFO	. :					US :	1991	L-734	1426	5	Α	1991	0723		

US 1991-734652 A 19910723 WO 1992-US5972 A 19920721

OTHER SOURCE(S):

MARPAT 119:117027

GΙ

Title compds. I (A = BCH:CH, BC.tplbond.C, BX(CH2)p wherein B = (substituted) Ph; X = bond, NH, S(O)p, (substituted) heteroaryl, (substituted) benzofused heteroaryl, (substituted) piperazinyl(alkyl), etc., p = 0-2; R = H, F, C1-15 alkyl, C1-15 alkenyl, C1-15 alkynyl, B(CH2)h wherein h = 0-3, etc.; D = B'(CH2)mCO, B'(CH2)q, B'(C2-6 alkenylene, etc. wherein B' = naphthyl, (substituted) Ph, m = 1-5, q = 2-6; R4 = substituted Ph, heterocyclyl) or a salt thereof, are prepd. (Me2CH)2NLi was added to Et 5-phenylvalerate in THF, followed by 4-methoxybenzylideneanisidine in CH2Cl2 to give the title (.+-.)-I (A = R4 = 4-(MeO)C6H4, R = H, D = PhCH2CH2CH2) (II). In hyperlipidemic hamsters, II at 50 mg/kg showed a redn. of serum cholesterol and cholesterol esters of 45 and 95%, resp. Capsule and tablet formulations comprising I are given.

L58 ANSWER 24 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1993:446258 HCAPLUS

DOCUMENT NUMBER: 119:46258

TITLE: Protein kinase C-mediated pulmonary vasoconstriction

in rabbit: Role of calcium, AA metabolites, and

vasodilators

AUTHOR(S): Michael, John R.; Yang, Jianing; Farrukh, Imad S.;

Gurtner, Gail H.

CORPORATE SOURCE: Med. Serv., Veterans Aff. Med. Cent., Salt Lake City,

UT, 84132, USA

SOURCE: J. Appl. Physiol. (1993), 74(3), 1310-19

CODEN: JAPHEV; ISSN: 8750-7587

DOCUMENT TYPE: Journal LANGUAGE: English

AB The effects of 3 chem. distinct protein kinase C activators on pulmonary vascular tone were studied in the buffer-perfused isolated rabbit lung. The 3 activators: 12-deoxyphorbol 13-isobutyrate (12,13-phorbol), mezerein, and 1-oleoyl-2-acetyl-sn-glycerol, produce concn.-dependent increases in pulmonary arterial pressure, whereas the inactive compd. 4.alpha.-phorbol 12,13-dibutyrate does not affect pulmonary arterial pressure. Reducing Ca availability with verapamil, a Ca-free buffer, or a chelator of intracellular Ca decreases the response to 12,13-phorbol or mezerein. Pretreatment with phloretin, an inhibitor of protein kinase C, has no affect on the vasoconstriction caused by infusion of a KCl bolus, but it does inhibit in a dose-dependent manner the response to 12,13-phorbol and mezerein. 12,13-Phorbol at a concn. of 2.5 .mu.M, but not of 1 .mu.M, stimulates prostacyclin and thromboxane synthesis by the

isolated lung. Because inhibitors of thromboxane synthesis decrease the response, thromboxane likely contributes to the vasoconstriction produced by higher concns. of 12,13-phorbol and mezerein. Pretreatment with isoproterenol or nitroprusside reduces the increase in pulmonary arterial pressure caused by the protein kinase C activators but does not reverse vasoconstriction, even though subsequent treatment with verapamil does. In summary: activating protein kinase C in the isolated rabbit lung causes long-lasting pulmonary vasoconstriction, reducing Ca availability decreases the response, part of the increase in pulmonary arterial pressure appears secondary to thromboxane generation, and pretreatment with isoproterenol or nitroprusside prevents the vasoconstriction, but posttreatment with these vasodilators is ineffective.

IT 34807-41-5, Mezerein

RL: BIOL (Biological study)

(lung vasoconstriction induction by, protein kinase C activation in relation to)

L58 ANSWER 25 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1992:143419 HCAPLUS

DOCUMENT NUMBER: 116:143419

TITLE: Different susceptibility of lung cell lines to

inhibitors of tumor promotion and inducers of

differentiation

AUTHOR(S): Zhu, H. G.; Tayeh, I.; Israel, L.; Castagna, M.

CORPORATE SOURCE: IRSC Lab., Villejuif, Fr.

SOURCE: J. Biol. Regul. Homeostatic Agents (1991), 5(2), 52-8

CODEN: JBRAER; ISSN: 0393-974X

DOCUMENT TYPE: Journal LANGUAGE: English

Histolog. distinct lung tumor and normal cell lines were treated with a variety of potential inhibitors of cell growth such as inducers of cell differentiation, inhibitors of protein kinase C and inhibitors of tumor The response was assessed by [3H] thymidine incorporation and cloning efficiency. Both phorbol retinoate acetate and mezerein stimulated growth in lung normal cell lines (human fibroblastic PEH cells and rat epithelial TP9 cells) while inhibiting growth in lung tumor cell lines (human small-cell cancer-derived cell line IRSC-10M and adenocarcinoma-derived cell line A549). Likewise, the hydrophobic peptide melittin did not inhibit growth and cloning efficiency of normal cells at 1 .mu.M, a concn. which prevented proliferation in tumor cells. Protein kinase C inhibitors, chlorpromazine, trifluoperazine and 1-(5-isoquinolinylsulfonyl) 2-methylpiperazine, were much more effective on proliferation of IRSC-10M than of A549 cells. In contrast, the latter cells were more susceptible to anti-promoters such as glycyrrhetic acid, an antiinflammatory agent, and 3,4,2',4'-tetrahydroxychalcone or 2,3,5-trimethyl-6(12-hydroxy-5,10-dodecadiynyl)-1,4-benzoquinone, two inhibitors of lipoxygenase, a key enzyme in arachidonate metab. These results provide evidence that small-cell carcinoma-derived cells, in contrast with adenocarcinoma-derived cells, are growth-inhibited by protein kinase C inhibitors and poorly dependent on the arachidonate metab. This difference in responsiveness suggests that different growth signalling pathways are preferentially triggered in these histol. distinct lung tumor cell lines. As a consequence, the proper susceptibility of tumor cells to phenotype modifiers has to be taken into account in cancer therapy.

IT 34807-41-5, Mezerein

RL: BIOL (Biological study)

(lung tumor cells of humans and lab. animals susceptibility to)

L58 ANSWER 26 OF 47 HCAPLUS COPYRIGHT 2002 ACS

1992:120903 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 116:120903

TITLE: Use of a modulator of protein phosphorylation in the

treatment of amyloidosis associated with Alzheimer's

INVENTOR(S): Buxbaum, Joseph D.; Gandy, Samuel E.; Greengard, Paul

PATENT ASSIGNEE(S): Rockefeller University, USA

SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
		EP 1991-107844	19910515
	A3 19920805 B1 19970409		
R: AT, BE, C	H, DE, DK, ES, FR,		•
JP 07025786		JP 1991-136925	
		CA 1991-2042668	
	E 19970415		
ES 2102986	ТЗ 19970816	ES 1991-107844	19910515
PRIORITY APPLN. INFO.:	_	5 1990-524202	
AB Disclosed is the	use of .gtoreq.1 kir	hase modulator or	phosphatase
modulator capable	of increasing or de	ecreasing the rate	of proteolytic
processing of prot	teins found in intra	acellular neurofib	rillary tangles and
extracellular amy	loid plaques for the	e prepn. of a phar	maceutical for the
treatment of amylo	oidosis assocd. with	n Alzheimer's dise	ase. The
pharmaceutical con	ntains the modulato	r in an amt. effec	tively regulating

phosphorylation of the proteins.

34807-41-5 ΙT

RL: BIOL (Biological study)

(as kinase stimulator, for treatment of amyloidosis assocd. with Alzheimer's disease)

L58 ANSWER 27 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:456233 HCAPLUS

DOCUMENT NUMBER: 113:56233

TITLE: Selective inactivation of peroxisomal and cytosolic

3-ketothiolase IB by 2-chloro-6-phenylhexanoate in

intact hepatocytes

Sephton, Gregory B.; Lowenstein, John M. AUTHOR(S):

Grad. Dep. Biochem., Brandeis Univ., Waltham, MA, CORPORATE SOURCE:

02254-9110, USA

SOURCE: J. Biol. Chem. (1990), 265(16), 9214-20

CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal LANGUAGE: English

Rat liver mitochondria and cytosol contain 2 types of 3-ketothiolases, namely 3-ketothiolases IA and IB, which cleave 3-ketoacyl-CoA (CoA) esters contg. .gtoreq.4 atoms and 3-ketothiolases IIA and IIB, which cleave 3-ketoacyl-CoA esters contq. 4 C atoms, i.e. acetoacetyl-CoA. peroxisomes also contain 3-ketothiolases IA and IB and show that incubation of hepatocytes with 2-chloro-6-phenylhexanoate causes the selective inactivation of peroxisomal and cytosolic 3-ketothiolase IB,

whereas mitochondrial 3-ketothiolases are not appreciably affected. The basis of the selectivity of the inhibitor for peroxisomal and cytosolic 3-ketothiolases can be accounted for in terms of the specificities of the enzymes in the different pathways of .beta.-oxidn. Evidence is presented that 2-chloro-6-phenylhexanoate is metabolized to 2-chloro-3-oxo-6-phenylhexanoyl-CoA, which then alkylates 3-ketothiolase and thereby inactivates the enzyme. Evidence is presented which suggests that cytosolic 3-ketothiolases IA and IB are not artifacts of homogenization and organelle prepn.

IT 128409-67-6

RL: BIOL (Biological study)

(ketothiolase of liver cytosol and peroxisome inhibition by)

IT 128409-68-7

RL: BIOL (Biological study)

(ketothiolase of **liver** cytosol and peroxisome inhibition by chlorophenylhexanoate mediation by)

L58 ANSWER 28 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1989:147312 HCAPLUS

DOCUMENT NUMBER: 110:147312

TITLE: Effects of activators of protein kinase C, including

bryostatins 1 and 2, on the growth of A549 human lung

carcinoma cells

AUTHOR(S): Dale, Ian L.; Gescher, Andreas

CORPORATE SOURCE: Pharm. Sci. Inst., Aston Univ., Birmingham, B4 7ET, UK

SOURCE: Int. J. Cancer (1989), 43(1), 158-63

CODEN: IJCNAW; ISSN: 0020-7136

DOCUMENT TYPE: Journal LANGUAGE: English

Phorbol esters inhibit the growth of A549 human lung carcinoma cells at non-toxic concns., whereas 1-oleoyl-2-acetylglycerol and 1,2-dioctanoylglycerol, synthetic analogs of the physiol. ligands of protein kinase C (PKC), do not. Expts. were conducted to test the hypothesis that other activators of PKC are capable of interfering with A549 cell growth. The non-phorboid tumor promoter mezerein mimicked the growth-inhibitory effect of TPA in that it arrested growth for 5 days, after which cells proliferated again in the presence of TPA. TPA was 20 times more potent as a growth inhibitor than mezerein. Bryostatin 1 at 10 nM and bryostatin 2 at 100 nM also arrested A549 cell growth and inhibited DNA replication as measured by incorporation of [Me-3H]-thymidine into cells. Inhibition of DNA synthesis to 75-90% of control values developed during the first hour of incubations of the cells with TPA, mezerein or bryostatins. The extent of inhibition changed little during the subsequent 5 h of incubation, after which it increased further to reach maximal values within 12 h. At concns. above those which caused maximal growth inhibition, the bryostatins abolished both their own inhibition of DNA synthesis and the anti-replicative effect of TPA and mezerein. Thus, activators of PKC other than phorbol esters are capable of inhibiting the growth of A549 cells. The bryostatins not only interfere with A549 cell growth but can also counter the growth-inhibitory effect of PKC activators, presumably via interaction with a target different from the phorbol ester receptor site.

IT 34807-41-5, Mezerein

RL: BIOL (Biological study)

(lung carcinoma growth of human inhibition by, as protein kinase C activator)

L58 ANSWER 29 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1989:69933 HCAPLUS

DOCUMENT NUMBER:

110:69933

TITLE:

Platelet-activating factor stimulates arachidonic acid

metabolism in rat liver cells (C-9 cell line) by a

receptor-mediated mechanism

AUTHOR(S):

Levine, Lawrence

CORPORATE SOURCE:

Dep. Biochem., Brandeis Univ., Waltham, MA, 02254, USA

Mol. Pharmacol. (1988), 34(6), 793-9 SOURCE:

CODEN: MOPMA3; ISSN: 0026-895X

DOCUMENT TYPE: Journal

English LANGUAGE:

Platelet-activating factor (PAF) stimulated prodn. of PGI2, PGE2, and PGF2.alpha., by rat liver cells (the C-9 cell line); as little as 0.2 nM PAF was effective. Enantio-PAF was 1000-fold less effective. Lyso-PAF, at 0.1-1.0 .mu.M, did not stimulate PGI2 prodn. The synthesis of PGI2 was essentially complete in 10 min. The stimulation by PAF of PGI2 prodn. was inhibited by the PAF antagonists L 659989, kadsurenone, L 652731, and BN 52021; the values for 50% inhibition (IC50) were 0.02, 0.19, 0.21, and 0.73 .mu.M, resp. The antagonists L 659989 and BN 52021 had no effect on the levels of 6-oxo-PGF1.alpha. stimulated by TPA, palytoxin, melittin, the Ca2+ ionophore A 23187, colchicine, transforming growth factor .alpha., or exogenous arachidonic acid. The effect of PAF on arachidonic acid metab. was inhibited by prior exposure of the cells to PAF. Prior treatment of the rat liver cells at 37.degree. with the TPA-type tumor promoters TPA, teleocidin, and aplysiatoxin, as well as with the 2nd-stage tumor promoter mezerein, all of which activate the Ca2+/phospholipiddependent protein kinase (protein kinase C), resulted not only in homologous desensitization to the TPA-type tumor promoters and mezerein, but also in heterologous desensitization to PAF. Stimulation of PGI2 prodn. by palytoxin, A 23187, or exogenous arachidonic acid was not inhibited by such prior treatments with the TPA-type tumor promoters. Prior treatment of the cells at 37.degree. for 30 min with the non-TPA-type tumor promoters okadaic acid or palytoxin, both of which do not activate protein kinase C, did not result in heterologous desensitization to PAF.

34807-41-5, Mezerein IT

RL: BIOL (Biological study)

(liver cells desensitization to platelet-activating factor stimulation of prostaglandin formation by)

L58 ANSWER 30 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1988:586743 HCAPLUS

DOCUMENT NUMBER: 109:186743

TITLE: Construction of novel chiral synthons with enzymes and

application to natural product synthesis. Part 23.

Enantioselective hydrolysis of dialkyl

3-monosubstituted glutarates with pig liver esterase:

structure-optical purity relationships

AUTHOR(S): Nakada, Masahisa; Kobayashi, Susumu; Ohno, Masaji;

Iwasaki, Shigeo; Okuda, Shigenobu

Fac. Pharm. Sci., Univ. Tokyo, Tokyo, 113, Japan CORPORATE SOURCE:

Tetrahedron Lett. (1988), 29(32), 3951-4 SOURCE:

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal LANGUAGE: English

CASREACT 109:186743 OTHER SOURCE(S):

Dialkyl 3-monosubstituted glutarates are subjected to hydrolysis with pig

liver esterase to afford the corresponding chiral half-esters.

Synthetically useful half-esters of higher optical purity are obtained

from the prochiral substrates of more hydrophobic nature.

ΙT 117213-93-1

RL: RCT (Reactant)

(enantioselective hydrolysis of, with pig liver esterase)

ΙT 117214-00-3P

RL: PREP (Preparation)

(prepn. of, from dialkyl glutarate enantioselective hydrolysis with pig liver esterase)

L58 ANSWER 31 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1988:126358 HCAPLUS

DOCUMENT NUMBER:

108:126358

TITLE:

Differential effects of tumor promoters on the growth of normal human bronchial epithelial cells and human

lung tumor cell lines

AUTHOR(S):

Sanchez, J. H.; Boreiko, C. J.; Furlong, J.;

Hesterberg, T. W.

CORPORATE SOURCE:

Dep. Gen. Toxicol., Chem. Ind. Inst. Toxicol.,

Research Trinagle Park, NC, 27709, USA Toxicol. In Vitro (1987), 1(4), 183-8

CODEN: TIVIEQ; ISSN: 0887-2333

DOCUMENT TYPE:

Journal

Ι

LANGUAGE:

SOURCE:

English

GΙ

The effects of TPA (I) on the colony-forming efficiency and growth of AΒ normal human bronchial epithelial (NHBE) cells and 5 lung squamous carcinoma cell lines were compared in medium contg. 1% fetal bovine serum. TPA (0.1-5.0 ng/mL) inhibited the growth of NHBE cells and 1 carcinoma cell line, whereas 4 of the 5 carcinoma lines were less sensitive to the growth- inhibitory properties of TPA but were slightly inhibited at higher TPA concns. The responses of NHBE cells and carcinoma cells to TPA, and the related compds., mezerein, 4-O-Me TPA, and phorbol were then compared in serum-free medium. In general, the removal of serum from the medium increased the differences in the responses to TPA between normal and tumor Two carcinoma lines inhibited by TPA in 1% serum were stimulated by TPA in the absence of serum. Mezerein and, to a lesser extent, 4-O-Me TPA also produced differential responses in colony-forming efficiencies between tumor lines and NHBE cells. Phorbol had no effect on either NHBE cells or on carcinoma cell lines. The relative insensitivity of carcinoma cell lines to the growth inhibitory effects of tumor promoters is consistent with the hypothesis that tumor promotion involves selection against normal cells to permit clonal expansion of preneoplastic or neo cell types.

ΙT 34807-41-5, Mezerein

RL: BIOL (Biological study)

(colony-forming efficiency and growth of human bronchial epithelial cells and human lung tumor cell lines response to)

L58 ANSWER 32 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1986:124747 HCAPLUS

DOCUMENT NUMBER:

104:124747

TITLE:

Novel serine phosphorylation of pp60c-src in intact

cells after tumor promoter treatment

AUTHOR(S):

Gentry, Larry E.; Chaffin, Karen E.; Shoyab, Mohammed;

Purchio, A. F.

CORPORATE SOURCE:

ONCOGEN, Seattle, WA, 98121, USA

SOURCE:

Mol. Cell. Biol. (1986), 6(2), 735-8 CODEN: MCEBD4; ISSN: 0270-7306

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Ι

GΙ

AB Treatment of normal cells with the tumor promoters TPA (I) [16561-29-8] and mezerein [34807-41-5] resulted in increased phosphorylation of the neoplastic-transforming protein pp60c-src. Two-dimensional tryptic phosphopeptide anal. of partial V8 protease fragments indicated that this phosphorylation takes place on a serine [56-45-1] residue and represents the major phosphorylation site following tumor promoter treatment. Untreated cells exhibited a low but detectable level of phosphorylation at this serine residue. The significance of these results with respect to the phosphoregulation of pp60c-src as well as tumor promotion is discussed.

ΙT 34807-41-5

RL: BIOL (Biological study)

(protein phosphorylation enhancement by, in lung cells)

L58 ANSWER 33 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER:

1986:124685 HCAPLUS

DOCUMENT NUMBER:

104:124685

TITLE:

Effects of 12-O-tetradecanoylphorbol 13-acetate on adhesiveness and lung-colonizing ability of Lewis lung

carcinoma cells

AUTHOR(S):

· Takenaga, Keizo; Takahashi, Katsuhiro

CORPORATE SOURCE:

Dep. Chemother., Chiba Cancer Cent. Res. Inst., Chiba,

280, Japan

SOURCE:

Cancer Res. (1986), 46(1), 375-80 CODEN: CNREA8; ISSN: 0008-5472

DOCUMENT TYPE:

Journal

LANGUAGE:

English

GΙ

AΒ The potent tumor promoter 12-0-tetradecanoylphorbol 13-acetate (TPA) (I) [16561-29-8] enhanced the adherence of low-metastatic Lewis lung carcinoma cells (P-29) to the surface of plastic culture dishes and to monolayers of endothelial cells. This effect was transient, being apparent within 15 min and maximal within 1 h after treatment with TPA. Biol. active analogs of TPA and mezerein [34807-41-5] also enhanced attachment of P-29 cells, whereas inactive analogs of TPA did not. TPA-treated P-29 cells formed many more pulmonary nodules than did untreated P-29 cells when injected i.v. into C57BL/6 mice. The kinetics of enhancement of attachment of P-29 cells after TPA treatment coincided well with that of enhancement of their lung-colonizing ability. Addn. of TPA to P-29 cells stimulated phosphorylation of a cellular protein with a mol. wt. of 54,000. The possibility that this phosphorylation was related to activation of Ca-phospholipid-dependent protein kinase was suggested by the fact that phospholipid breakdown induced by exogenous treatment of the cells with Clostridium perfringens phospholipase C [9001-86-9] and 1-oleoyl-2-acetylglycerol [84746-00-9] also enhanced Mr 54,000 cellular protein phosphorylation. However, neither phospholipase C nor 1-oleoyl-2-acetylglycerol enhanced attachment of P-29 cells or their lung-colonizing ability.

IT 34807-41-5

RL: BIOL (Biological study)

(lung carcinoma cell adhesiveness and lung colonizing ability response to pretreatment with)

L58 ANSWER 34 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:144549 HCAPLUS

DOCUMENT NUMBER: 102:144549

TITLE: Response of cultured rat liver epithelial cell lines

to tumor-promoting phorbol esters

AUTHOR(S): Ljubimov, Alexander V.; Martel, Nicole; Yamasaki,

Hiroshi

CORPORATE SOURCE: Int. Agency Res. Cancer, Lyon, 69372, Fr.

SOURCE: Exp. Cell Res. (1985), 156(2), 311-26

CODEN: ECREAL; ISSN: 0014-4827

DOCUMENT TYPE: Journal LANGUAGE: English

LANGUAGE: Eng GI

The membrane effects of a potent tumor promoter, TPA (I) [16561-29-8], AΒ were studied in a series of cultured rat liver epithelial cell lines. Treatment with TPA resulted in the formation of strand-like aggregates (ridges) of viable cells over the monolayer of IAR 6-1 cells, but not of 3 other cell lines tested (IAR 20, IAR 6, IAR 6-7). A class of specific, saturable, high-affinity receptors for phorbol esters was demonstrated in all 4 cell lines employing a conventional 20-3H-labeled phorbol 12,13-dibutyrate [37558-16-0]-binding assay. The dissocn. consts. were similar in 4 lines, but the no. of receptors per cell in IAR 6-1 cells was about twice than that in other lines. Down-regulation of receptors was demonstrated in IAR 20 and IAR 6-1 cells with similar characteristics. Iodinable surface proteins and galactose-contg. surface glycoproteins did not respond to TPA. The distribution of fibronectin, laminin-entactin, and procollagen type III was not affected by TPA. A TPA-responsive cell line, IAR 6-1, contained considerably less laminin-entactin than did the other lines. TPA had no influence on metabolic labeling of 3H-labeled fucose-contg. cellular glycoprotein in IAR 6-1 cells. One specific protein, with mol. mass of 78 kdaltons was more heavily labeled in IAR 6-1 cells than in the other cell lines. The responsive cells (IAR 6-1) differed from nonresponsive ones in having more phorbol ester receptors, increased fucosylation of a specific glycoprotein, and decreased deposition of laminin-entactin in the extracellular matrix.

IT 34807-41-5

RL: PROC (Process)

(binding of, by receptors of cultured liver epithelial cells)

L58 ANSWER 35 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:2495 HCAPLUS

DOCUMENT NUMBER: 102:2495

TITLE: Mechanism of inactivation of chymotrypsin by

3-benzyl-6-chloro-2-pyrone

AUTHOR(S): Gelb, Michael H.; Abeles, Robert H.

CORPORATE SOURCE: Grad. Dep. Biochem., Brandeis Univ., Waltham, MA,

02254, USA

SOURCE: Biochemistry (1984), 23(26), 6596-604

CODEN: BICHAW; ISSN: 0006-2960

DOCUMENT TYPE: Journal LANGUAGE: English

AB The mechanism of inactivation of chymotrypsin (I) by 3-benzyl-6-chloro-2-pyrone was studied. Chloride anal. of inactivated I suggested that the complex did not contain intact chloropyrone or an acid chloride. 13C NMR studies of I inactivated with 13C-enriched chloropyrones showed that (1) the pyrone ring was no longer intact, (2) C-6 became a carboxylate group and C-2 became esterified to the enzyme, probably to serine-195, and (3) a double bond was present adjacent to the serine ester. Inactivated I

slowly regained catalytic activity with the concomitant release of (E)-4-benzyl-2-pentenedioic acid. Evidently, double bond migration occurred during reactivation, since the position of the double bond in the released diacid product was different than in the inactivator-enzyme When the reactivation was carried out in [180]H2O-enriched water, a single 180 was incorporated into the released product, and this was further evidence that the inactivator is bound to the enzyme only through a single ester linkage. A 2H isotope effect on reactivation was obsd. when a chloropyrone deuterated at C-5 was used. Thus, removal of a proton from C-5 is required for reactivation, and isomerization of the double bond and not hydrolysis of the acyl-enzyme is rate detg. A variety of amines accelerated the rate of reactivation by functioning as general bases and not as nucleophiles. A reaction scheme is presented that accounts for the formation of the stable inactivator-enzyme complex as well as the prodn. of 2 products derived from enzymic hydrolysis of the chloropyrone. The importance of a C-6-derived carboxylate group in the stabilization of the acyl-enzyme is discussed.

IT 85533-88-6

RL: FORM (Formation, nonpreparative)

(formation of, from benzylchloropyrone by chymotrypsin,

enzyme inactivation in relation to)

IT 93383-65-4

RL: FORM (Formation, nonpreparative)

(formation of, in benzylchloropyrone inactivation of

chymotrypsin)

L58 ANSWER 36 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1984:134019 HCAPLUS

DOCUMENT NUMBER: 100:134019

TITLE: Effects of tumor promoters on the frequency of

metallothionein I gene amplification in cells exposed

to cadmium

AUTHOR(S): Hayashi, Kenshi; Fujiki, Hirota; Sugimura, Takashi

CORPORATE SOURCE: Biochem. Div., Natl. Cancer Cent. Res. Inst., Tokyo,

104, Japan

SOURCE: Cancer Res. (1983), 43(11), 5433-6

Ι

CODEN: CNREA8; ISSN: 0008-5472

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

O2C (CH2) 12Me
OAC

Me
H
H
H
H
CH2OH

AB Three potent tumor promoters of different classes, 12-0-tetradecanoylphorbol 13-acetate (I) [16561-29-8], dihydroteleocidin B

[7491-76-1] and aplysiatoxin [52659-57-1], and 2 moderate tumor promoters, mezerein [34807-41-5], and debromoaplysiatoxin [52423-28-6], enhanced the frequency of appearance of Cd-resistant Chinese hamster lung cells when the cells were exposed to cytotoxic levels of CdCl2. With these compds., the activity to induce Cd-resistant cells correlated well with the potency of tumor-promoting activity. Cd resistance, which persisted after removal of the tumor promoters, was assocd. with the overprodn. of metallothionein I mRNA. The amplified metallothionein I genes were shown by Southern blotting expts. The relevance of the gene amplification caused by tumor promoters is discussed in relation to cancer development and progression.

L58 ANSWER 37 OF 47 HCAPLUS COPYRIGHT 2002 ACS 1984:115151 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 100:115151

TITLE: Long-acting contraceptive agents: in vitro hydrolysis

of esters of norethisterone and levonorgestrel

Naderi, S.; Fotherby, K. AUTHOR(S):

CORPORATE SOURCE: Dep. Steroid Biochem., R. Postgrad. Med. Sch., London,

W12 OHS, UK

Steroids (1983), 41(3), 397-417 SOURCE:

CODEN: STEDAM; ISSN: 0039-128X

DOCUMENT TYPE: Journal LANGUAGE: English

Hydrolysis of 108 norethisterone esters and 49 levonorgestrel esters by rabbit liver was studied in vitro. For straight chain esters, introduction of a triple or double bond at C4, C5, or C6 did not inhibit hydrolysis; however, a decrease in hydrolysis was produced by replacement of a methylene group by an O atom. Except for short chain esters, hydrolysis was inhibited by substituents at C2 of the ester chain. Cyclopropylcarboxylate and cyclobutylcarboxylate were readily hydrolyzed, and introduction of a furan ring into the side chain did not affect hydrolysis. Cholesteryl carbonate ester and pentamethyldisilyloxy ether were not hydrolyzed by the liver prepn. Levonorgestrel esters were hydrolyzed more slowly than norethisterone esters, and biol. potency of the esters was independent of the rate of hydroysis in vitro. Apparently, hydrolysis rate is not the major factor involved in expression of biol. activity, with uptake from the injection site probably being more important.

ΙT 89094-62-2 89094-76-8

RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (hydrolysis of, by liver)

L58 ANSWER 38 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1983:418590 HCAPLUS

DOCUMENT NUMBER: 99:18590

TITLE: Novel inactivators of serine proteases based on

6-chloro-2-pyrone

Westkaemper, Richard B.; Abeles, Robert H. AUTHOR(S):

CORPORATE SOURCE: Grad. Dep. Biochem., Brandeis Univ., Waltham, MA,

02254, USA

SOURCE: Biochemistry (1983), 22(13), 3256-64

CODEN: BICHAW; ISSN: 0006-2960

DOCUMENT TYPE: Journal LANGUAGE: English

AΒ The interaction of serine protease (esterases) with 6-chloro-2-pyrones was investigated. Time-dependent inactivation of chymotrypsin, .alpha.-lytic protease, pig liver elastase, and acetylcholinesterase was found with 3and 5-benzyl-6-chloro-2-pyrone, as well as 3- and 5-methyl-6-chloro-2-

pyrone. No inactivation was obsd. with the unsubstituted 6-chloro-2-pyrone. The substituted pyrones did not inactivate papain or carboxypeptidase A, nor a no. of other nonproteolytic enzymes. The substituted chloropyrones, therefore, show considerable selectivity toward serine proteases. Analogs in which the 6-chloro substituent is replaced by H or OH do not inactivate. The presence of the halogen is, therefore, essential for inactivation. Chymotrypsin catalyzes the hydrolysis of 3-benzyl-6-chloro-2-pyrone. At pH 7.5, (E)-4-benzyl-2-pentenedioic acid is the major product, and 2-benzyl-2-pentenedioic anhydride is a minor product. The ratio of hydrolysis product found to the no. of enzyme mols. inactivated varies in the range 14-40. The enzyme inactivated with the 3-benzyl compd. does not show a spectrum characteristic of the pyrone This suggests that inactivation by 3-benzyl-6-chloro-2-pyrone occurs in a mechanism-based fashion after enzymic lactone hydrolysis. When the enzyme is inactivated with the 5-benzyl compd., absorbance due to the pyrone ring is obsd. It is suggested that inactivation occurs through an active site directed mechanism involving a 1,6-conjugate addn. of an active site nucleophile to the pyrone ring.

IT 85533-83-1

RL: FORM (Formation, nonpreparative)

(formation of, in chymotrypsin reaction with

benzylchloropyrone)

IT 85533-84-2 85533-85-3

RL: FORM (Formation, nonpreparative)

(formation of, in chymotrypsin reaction with

benzylpentenedioic anhydride)

IT 85533-91-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction with **chymotrypsin**)

L58 ANSWER 39 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1983:1508 HCAPLUS

DOCUMENT NUMBER: 98:1508

TITLE: Diversity of nuclear phorbol ester tumor promoter

receptors in mouse liver: evidence for two classes of

binding sites

AUTHOR(S): Perrella, Frank W.; Bussell, Pauline A.; Boutwell, R.

K.

CORPORATE SOURCE: McArdle Lab. Cancer Res., Univ. Wisconsin, Madison,

WI, 53706, USA

SOURCE: Biochem. Biophys. Res. Commun. (1982), 108(4), 1722-7

CODEN: BBRCA9; ISSN: 0006-291X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

Me OAC (CH2) 12Me OAC Me Me Me Me CH2OH

AB Two classes of phorbol ester binding sites were demonstrated in the nuclear fraction of liver from female CD-1 mice. Equil. binding studies of 0.40 M NaCl nuclear exts. yielded a sigmoidal satn. curve which was resolved by Hill plot anal. into 2 components. However, when nuclei were extd. in 0.24 M NaCl, the 12-O-tetradecanoylphorbol 13-acetate (I) [16561-29-8] satn. curve of the ext. was biphasic in the shape of both high and low affinity binding sites termed Class I and II receptors. When the 0.24 M NaCl extd. nuclear pellet was extd. further in 0.40 M NaCl, satn. anal. of the ext. revealed only the low affinity binding site (Class II). This is the 1st study to identify the existence of phorbol ester receptors in liver nuclei.

IT 34807-41-5

RL: PRP (Properties)

(binding sites of, in liver, classes of)

L58 ANSWER 40 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1982:491946 HCAPLUS

ACCESSION NUMBER: 1982:4919 DOCUMENT NUMBER: 97:91946

TITLE: Carboxylic acids

PATENT ASSIGNEE(S): Toyama Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 57014555 A2 19820125 JP 1980-88477 19800701

OTHER SOURCE(S): CASREACT 97:91946

Thirty-four carboxylic acids R1C6H4C6H5-nRn[I, = (carboxy) alkenylene or alkadienylene; R = substituted alkyl, alkenyl, aryl, etc.; R1 = CO2H, (carboxy) alkyl; n = 0-3) were prepd. by reaction of RnC6H5-nX1CHO (X1 = alkylene, alkenylene) with R1C6H5(CH2)mCO2H (m = 1-3). Liver function improving test data of I were given in rats using Congo Red. Thus, refluxing a mixt. of 0.94 g trans-PhCH:CHCHO, 0.9 g 3-HO2CC6H4CH2CO2H, 1.1 mL Ac2O, and 0.58 mL Et3N 35 min gave 0.8 g (E,E)-3-HO2CC6H4C(CO2H):CHCH:CHPh.

IT 81995-43-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, for liver function improvement)

L58 ANSWER 41 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1982:418803 HCAPLUS

DOCUMENT NUMBER: 97:18803

TITLE: The role of free oxygen radicals in tumor promotion

and carcinogenesis

AUTHOR(S): Troll, Walter; Witz, Gisela; Goldstein, Bernard;

Stone, Donna; Sugimura, Takashi

CORPORATE SOURCE: Med. Cent., New York Univ., New York, NY, 10016, USA SOURCE: Carcinog. - Compr. Surv. (1982), 7(Cocarcinog. Biol.

Eff. Tumor Promoters), 593-7

CODEN: CCSUDL; ISSN: 0147-4006

DOCUMENT TYPE: Journal LANGUAGE: English

GI

AB The formation of superoxide by polymorphonuclear lymphocyte (PMNs) was stimulated by phorbol 12-myristate 13-acetate (I) [16561-29-8], mezerein [34807-41-5], and teleocidin B [11032-05-6] which are tumor promoters. However, phorbol esters which are not tumor promoters did not enhance superoxide formation. Soybean and lima bean trypsin inhibitor [36357-77-4], retinol [68-26-8], retinyl acetate [127-47-9], retinoic acid [302-79-4] and other protease inhibitors inhibited the I-stimulated superoxide formation in PMNs. Probably, the free superoxide is responsible for the tumor promoter-induced cell damage.

L58 ANSWER 42 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1982:104596 HCAPLUS

DOCUMENT NUMBER:

96:104596

TITLE:

Synthesis and properties of liquid crystals. III. Cholesterol esters of some cis-, trans-isomers of

unsaturated acids

AUTHOR(S):

Bogatskii, A. V.; Galatina, A. I.; Derkach, L. G.;

Taubert, D.

CORPORATE SOURCE:

Fiz.-Khim. Inst., Odessa, USSR

SOURCE:

Zh. Org. Khim. (1981), 17(11), 2320-3

CODEN: ZORKAE; ISSN: 0514-7492

DOCUMENT TYPE:

Journal Russian

LANGUAGE:

AB The esters of cholesterol with cis- and trans-RCX:CHCO2H (R = Me, Ph; X = H; R = Me, X = Cl) and with .alpha.-cis-.gamma.-trans- and .alpha.-trans-.gamma.-trans-RCH:CHCH:CHCO2H (R = Me, Ph) were prepd. and their crystal .fwdarw. cholesteric mesophase, (Tl), cholesteric mesophase .fwdarw. isotropic liq. (T2), and cholesteric mesophase .fwdarw. crystal transition temps. detd. The double bonds in the acid moiety facilitate formation of the cholesteric mesophase and retard crystn. Both Tl and T2 are higher for the trans than for the cis isomers. The Cl atom lowers the thermal stability of the cholesteric mesophase.

IT 28010-12-0 28010-13-1

RL: RCT (Reactant)

(esterification of, with cholesterol)

L58 ANSWER 43 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1978:16047 HCAPLUS

DOCUMENT NUMBER: 88:16047

TITLE: Effect of .beta.-benzalbutyramide on cholesterol

biosynthesis

AUTHOR(S):

Nakamura, Haruo

CORPORATE SOURCE:

Dep. Oral Physiol., Hokkaido Univ. Sch. Dent.,

Sapporo, Japan

SOURCE:

Igaku To Seibutsugaku (1976), 92(5), 421-3

CODEN: IGSBAL

DOCUMENT TYPE: LANGUAGE: Journal Japanese

GΙ

Me Me Me

AB Administration of .beta.-benzalbutyramide (I) [7236-47-7] (100 mg/Kg) lowered plasma cholesterol (II) [57-88-5] in male rats given Triton WR 1339 (200 mg/Kg). II biosynthesis from acetate and mevalonate by liver was inhibited by I in vitro and in vivo. I inhibited the incorporation of mevalonate more markedly than that of acetate.

ΙI

IT 7236-47-7

RL: BIOL (Biological study)

(cholesterol formation by liver inhibition by)

L58 ANSWER 44 OF 47 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1977:150586 HCAPLUS

DOCUMENT NUMBER: 86:150586

TITLE: Effect of hypolipidemic and hypoglycemic drugs on

ethanol induced hypertriglyceridemia in rats

AUTHOR(S): Puglisi, L.; Caruso, V.; Conti, F.; Fumagalli, R.;

Sirtori, C.

CORPORATE SOURCE: Inst. Pharmacol. Pharmacogn., Univ. Milano, Milan,

Italy

SOURCE: Pharmacol. Res. Commun. (1977), 9(1), 71-7

CODEN: PLRCAT

DOCUMENT TYPE: Journal LANGUAGE: English

AB An exptl. model of hypertriglyceridemia induced by subacute ethanol [64-17-5] administration was developed in rats. A four day schedule of administration induced a 50-100% increase of serum triglycerides, without changes in **cholesterol** levels. Drugs effective on lipid or glucose metab. were tested in this model. Hypoglycemic sulphonylureas, nicotinic acid, clofibrate, and the new hypolipidemic agent .beta.-benzalbutyrate diethylamide (C11) [58458-55-2] were effective agents in controlling ethanol induced hypertriglyceridemia. The activity of C11 was also confirmed in ethanol-induced hypertriglyceridemia in human volunteers.

L58 ANSWER 45 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1974:11894 HCAPLUS

DOCUMENT NUMBER: 80:11894

TITLE: Manipulation of enzyme function

AUTHOR(S): Fink, Gerhard; Thoma, Hans

CORPORATE SOURCE: Inst. Tech. Chem., Tech. Univ. Muenchen, Munich, Ger. SOURCE: DECHEMA (Deut. Ges. Chem. Apparatew.) Monogr. (1973),

71, 295-314 CODEN: DMDGAG

DOCUMENT TYPE:

Journal

LANGUAGE:

German

Me cinnamoylacetate (PhCH:CHCOCH2CO2Me) (I) was synthesized as model substrate for chymotrypsin, as well as the p-methoxy derivs., Me 5-(p-methoxyphenyl)-3-ketovalerate, and Me 4-phenylbutadienecarboxylate. Only I was hydrolyzed by the enzyme. The rate was measured by the pH-stat method and was proportional to enzyme concn., with the greatest activity at pH 8. Substrate saturation occurred at 3.1 .times. 10-3M. There was no hydrolysis in the absence of enzyme. The model substrates were only slightly soluble in water, so MeOH, EtOH, dioxane, and Me2SO were used as solvents. These solvents reduced the activity of the enzyme. The effect of these solvents was detd. on the chymotrypsin attached to CM-methylcellulose. The dioxane and Me2SO systems gave the highest enzymic activity. The chymotrypsin was bound to the CM-cellulose by the azide method. N-Succinyl-L-phenylalanine- (SPNA), N-glutaryl-Lphenylalanine- (GPNA), N-acetyl-L-tyrosine- (ATNA), and L-phenylalanine-(PNA) p-nitroanilides were used as substrates in the column reactor and the rate of the reaction measured by the p-nitroaniline formed measured at 405 nm. When the amt. of product formation was plotted against time a break was found in the curve and the break was dependent on substrate and enzyme concn., but was independent of the flow rate of substrate soln. through the column. The charge on the CM-cellulose displaced the pH optimum of the reaction to 9.3. NaCl had a complex effect on the immobilized enzyme. Temp. effects on the immobilized enzyme were measured and the heat of reaction calcd. for the various substrates: ATNA, 15.6 Kcal/mole; GPNA, 15.5 kcal/mole and PNA, 14.2 kcal/mole.

1516-24-1 IΤ

RL: RCT (Reactant)

(reaction of, with chymotrypsin, kinetics of)

L58 ANSWER 46 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1972:471959 HCAPLUS

DOCUMENT NUMBER:

77:71959

TITLE:

Specific modification of methionine-192 of

.alpha.-chymotrypsin by an affinity label exploiting the orienting properties of the linear acetylenic

group

AUTHOR(S):

SOURCE:

Jones, J. Bryan; Hysert, David W.

CORPORATE SOURCE:

Dep. Chem., Univ. Toronto, Toronto, Ont., Can.

Biochemistry (1972), 11(14), 2726-33

CODEN: BICHAW

DOCUMENT TYPE:

Journal

LANGUAGE:

English

The practicability of incorporating acetylenic bonds into affinity labels AB in order to exploit their rodlike properties for improving the orientation of an alkylating function toward a selected protein nucleophile was demonstrated by the facile irreversible inhibition of .alpha.-chymotrypsin by 6-bromo-1-phenylhex-4-yn-3-one. 6-Bromo-1-phenylhex-4-yn-3-one was designed to achieve optimum orientation of its propargylic bromide alkylating function toward both histidine-57 and methionine-192. However, the latter function was alkylated selectively owing to its 100-fold greater reactivity with propargylic bromides. Rate of inhibition, pH-rate profile, competitive inhibition, effect on Km(app) and k3, amino acid anal., and diagonal peptide-mapping studies established that 6-bromo-1-phenylhex-4-yn-3-one was a methionine-192-specific, active-site-directed, irreversible inhibitor. The calcd. values of its Ki (10mM) and rate of inhibition const. (2.8 .times. 10-3 sec-1) show it to

be one of the best methionine-192 of .alpha.-chymotrypsin directed affinity labels yet evaluated.

37566-49-7 TΤ

RL: BIOL (Biological study)

(chymotrypsin inhibition by, kinetics of)

L58 ANSWER 47 OF 47 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1969:113584 HCAPLUS

DOCUMENT NUMBER:

70:113584

TITLE:

Inhibition of liver cholesterol biosynthesis by

butyric acid derivatives

AUTHOR(S):

Giorgini, D.; Porcellati, Giuseppe

CORPORATE SOURCE:

Univ. Pavia, Pavia, Italy

SOURCE:

Farmaco, Ed. Sci. (1969), 24(4), 392-401

CODEN: FRPSAX

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Previous work on cholesterol synthesis inhibition by various phenyl derivs. is reviewed. Exptl. evidence is reported which shows that cholesterol synthesis from labeled acetate in rat liver slices is markedly inhibited in vitro by .beta.-benzalbutyric acid, and in a less evident way also by .alpha.-hydroxy-.beta.-benzalbutyric acid. Cholesterol formation from labeled mevalonate is, on the contrary, scarcely affected under similar conditions by both compds. Results are also shown which indicate that a similar inhibition is brought about also by .beta.-benzalbutyramide in rat liver purified microsomes, supplemented by its supernatant fraction. Inhibition is similarly evident from acetate but is hardly present, when acetate is replaced by mevalonate. Expts. carried out with partially purified enzymes (acetate:CoA ligase, E.C. 6.2.1.1, and acetyl CoA-acetyl transferase, E.C. 2.3.1.9) show that only the 1st enzyme is inhibited in vitro by .beta.-benzalbutyric acid, although at concns. higher than those shown to be able to inhibit cholesterol formation by the slices. Suggestion is made that other enzymes of the acetate-mevalonate pathway might be inhibited in vitro by .beta.-benzalbutyric acid and its derivs.

7236-47-7 TΤ

RL: BIOL (Biological study)

(cholesterol formation by liver in response to)

=> select hit rn 158 1-47 E10 THROUGH E56 ASSIGNED

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=> d his 159

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FILE 'REGISTRY' ENTERED AT 14:29:59 ON 08 MAY 2002 L59 47 S E10-E56

=> =>

=> d ide can 159 1-47

L59 ANSWER 1 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 300662-69-5 REGISTRY

CN 4-Pentynoyl chloride, 5-phenyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C11 H9 Cl O

SR CA

LC STN Files: CA, CAPLUS, CASREACT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:296331

L59 ANSWER 2 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 205373-53-1 REGISTRY

CN Propanoic acid, 2,2-dimethyl-, 5-fluoro-2-(phenylmethyl)-4-pentenyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H23 F O2

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:291977

L59 ANSWER 3 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 205373-49-5 REGISTRY

CN Propanoic acid, 2,2-dimethyl-, 4-bromo-5-fluoro-2-(phenylmethyl)pentyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H24 Br F O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:291977

L59 ANSWER 4 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **205373-47-3** REGISTRY

CN Propanoic acid, 2,2-dimethyl-, 5-bromo-4-fluoro-2-(phenylmethyl)pentyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H24 Br F O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:291977

L59 ANSWER 5 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 199791-52-1 REGISTRY

CN 3-Butenamide, N-[2-[[2,4-dichloro-3-[[(2-methyl-8-quinolinyl)oxy]methyl]phenyl]methylamino]-2-oxoethyl]-4-phenyl- (9CI) (CF INDEX NAME)

FS 3D CONCORD

MF C30 H27 C12 N3 O3

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:30416

REFERENCE 2: 128:30415

L59 ANSWER 6 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 180728-05-6 REGISTRY

CN Carbamic acid, [3-[[(4-aminophenyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethylene)propyl]-, tetrahydro-3-furanyl ester, [S-(R*,S*)]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C25 H33 N3 O6 S

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:184776

L59 ANSWER 7 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 178541-89-4 REGISTRY

CN 3-Butenamide, N-[4-[4-[2-(diethylamino)ethoxy]-3-methylphenyl]cyclohexyl]-N-methyl-4-phenyl-, trans- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C30 H42 N2 O2

SR CA

LC STN Files: CA, CAPLUS

Relative stereochemistry. Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:86319

L59 ANSWER 8 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 178541-15-6 REGISTRY

CN 3-Butenamide, N-[4-(4-hydroxy-3-methylphenyl)cyclohexyl]-N-methyl-4-phenyl, trans- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C24 H29 N O2

SR CA

LC STN Files: CA, CAPLUS

Relative stereochemistry. Double bond geometry unknown.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:86319

L59 ANSWER 9 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 178540-64-2 REGISTRY

CN 3-Butenamide, N-methyl-4-phenyl-N-[4-(5-pyrimidinyl)cyclohexyl]-, trans-(9CI) (CA INDEX NAME)

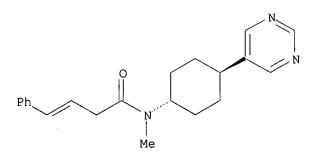
FS STEREOSEARCH

MF C21 H25 N3 O

SR CA

LC STN Files: CA, CAPLUS

Relative stereochemistry.
Double bond geometry unknown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:86319

L59 ANSWER 10 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **178540-37-9** REGISTRY

CN 3-Butenamide, N-[4-(4-methoxy-3-methylphenyl)cyclohexyl]-N-methyl-4-phenyl-, trans- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C25 H31 N O2

SR CA

LC STN Files: CA, CAPLUS

Relative stereochemistry. Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:86319

L59 ANSWER 11 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 178540-24-4 REGISTRY

CN 3-Butenamide, N-methyl-4-phenyl-N-[4-(4-pyridinyl)cyclohexyl]-, trans-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H26 N2 O

SR CA

LC STN Files: CA, CAPLUS

Relative stereochemistry. Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:86319

L59 ANSWER 12 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 178365-08-7 REGISTRY

CN 3-Butenamide, N-[4-(4-methoxy-3-methylphenyl)cyclohexyl]-4-phenyl-N-(phenylmethyl)-, trans- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C31 H35 N O2

SR CA

LC STN Files: CA, CAPLUS

Relative stereochemistry.

Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:58115

L59 ANSWER 13 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **178163-33-2** REGISTRY

CN 3-Butenamide, N-[4-[4-[(dimethylamino)methyl]phenyl]cyclohexyl]-N-methyl-4-phenyl-, trans- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C26 H34 N2 O

SR CA

LC STN Files: CA, CAPLUS

Relative stereochemistry. Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:58083

L59 ANSWER 14 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 178162-88-4 REGISTRY

CN 3-Butenamide, N-[4-[4-[(diethylamino)methyl]phenyl]cyclohexyl]-N-methyl-4-phenyl-, trans- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C28 H38 N2 O

SR CA

LC STN Files: CA, CAPLUS

Relative stereochemistry.

Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:58083

L59 ANSWER 15 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 173866-73-4 REGISTRY

CN Glycinamide, N-[(phenylmethoxy)carbonyl]glycyl-N-[4-fluoro-1-(phenylmethyl)-2-butenyl]-, (S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C23 H26 F N3 O4

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Double bond geometry unknown.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:169116

L59 ANSWER 16 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 173866-72-3 REGISTRY

CN Carbamic acid, [2-[[4-fluoro-1-(phenylmethyl)-2-butenyl]amino]-2-oxoethyl]-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C21 H23 F N2 O3

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:169116

L59 ANSWER 17 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **173866-71-2** REGISTRY

CN Acetamide, N-[4-fluoro-1-(phenylmethyl)-2-butenyl]-, (S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C13 H16 F N O

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:169116

L59 ANSWER 18 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 173866-70-1 REGISTRY

CN Glycinamide, N-[(phenylmethoxy)carbonyl]glycyl-N-[4-chloro-1-(phenylmethyl)-2-butenyl]-, (S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C23 H26 C1 N3 O4

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:169116

L59 ANSWER 19 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 173866-69-8 REGISTRY

CN Glycinamide, N-[(phenylmethoxy)carbonyl]glycyl-N-[4-bromo-1-(phenylmethyl)-2-butenyl]-, (S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C23 H26 Br N3 O4

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:169116

L59 ANSWER 20 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 173866-68-7 REGISTRY

FS STEREOSEARCH

MF C21 H23 C1 N2 O3

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.
Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:169116

L59 ANSWER 21 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 173866-67-6 REGISTRY

CN Carbamic acid, [2-[[4-bromo-1-(phenylmethyl)-2-butenyl]amino]-2-oxoethyl]-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C21 H23 Br N2 O3

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:169116

L59 ANSWER 22 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 173866-64-3 REGISTRY

CN Acetamide, N-[4-chloro-1-(phenylmethyl)-2-butenyl]-, (S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C13 H16 C1 N O

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:169116

L59 ANSWER 23 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **173866-63-2** REGISTRY

CN Acetamide, N-[4-bromo-1-(phenylmethyl)-2-butenyl]-, (S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C13 H16 Br N O

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:169116

L59 ANSWER 24 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 128409-68-7 REGISTRY

CN Coenzyme A, S-(2-chloro-3-oxo-6-phenylhexyl) - (9CI) (CA INDEX NAME)

MF C33 H48 C1 N7 O14 P2 S

SR CA

LC STN Files: CA, CAPLUS

PAGE 1-A

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE) 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:56233

L59 ANSWER 25 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **128409-67-6** REGISTRY

CN Benzenehexanoic acid, .alpha.-chloro- (9CI) (CA INDEX NAME)

FS 3D CONCORD

DR 128409-71-2

MF C12 H15 C1 O2

SR CA

LC STN Files: CA, CAPLUS, MEDLINE

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:56233

L59 ANSWER 26 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 117214-00-3 REGISTRY

CN Pentanedioic acid, 3-(2-phenylethenyl)-, monomethyl ester, [R-(E)]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

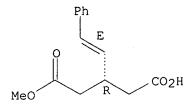
MF C14 H16 O4

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Absolute stereochemistry. Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 109:186743

L59 ANSWER 27 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **117213-93-1** REGISTRY

CN Pentanedioic acid, 3-(2-phenylethenyl)-, dimethyl ester, (E)- (9CI) (CA

INDEX NAME)

FS STEREOSEARCH

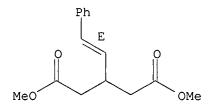
MF C15 H18 O4

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT

(*File contains numerically searchable property data)

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 110:74799

REFERENCE 2: 109:186743

L59 ANSWER 28 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 116246-06-1 REGISTRY

CN 2-Pentenoic acid, 4-[[(1,1-dimethylethoxy)carbonyl]amino]-5-phenyl-, ethyl

ester, (S) - (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C18 H25 N O4

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL (*File contains numerically searchable property data)

Absolute stereochemistry. Double bond geometry unknown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:169116

REFERENCE 2: 113:153049

REFERENCE 3: 109:129688

L59 ANSWER 29 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 99858-37-4 REGISTRY

CN Benzene, (5-iodopentyl) - (6CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN (5-Iodopentyl)benzene

CN 1-Iodo-5-phenylpentane

CN 5-Phenyl-1-iodopentane

FS 3D CONCORD

MF C11 H15 I

SR CAOLD

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

I - (CH₂)₅ - Ph

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9 REFERENCES IN FILE CA (1967 TO DATE)

9 REFERENCES IN FILE CAPLUS (1967 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 134:207397

REFERENCE 2: 133:222752

REFERENCE 3: 130:267212

REFERENCE 4: 130:52236

REFERENCE 5: 130:3689

REFERENCE 6: 124:8857

REFERENCE 7: 123:143878

REFERENCE 8: 122:313813

REFERENCE 9: 113:77634

L59 ANSWER 30 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **93383-65-4** REGISTRY

CN L-Serine, 5-hydrogen 2-(phenylmethyl)-2-pentenedioate (ester), (E)- (9CI)

(CA INDEX NAMÉ) STEREOSEARCH

FS STEREOSEARCH MF C15 H17 N O6

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 102:2495

L59 ANSWER 31 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 89094-76-8 REGISTRY

CN 18,19-Dinorpregn-4-en-20-yn-3-one, 13-ethyl-17-[(1-oxo-5-phenyl-2-penten-4-ynyl)oxy]-, [17.alpha.,17(E)]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C32 H34 O3

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Absolute stereochemistry.

Double bond geometry as shown.

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 102:154799

REFERENCE 2: 100:115151

REFERENCE 3: 100:115135

L59 ANSWER 32 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **89094-62-2** REGISTRY

CN 19-Norpregn-4-en-20-yn-3-one, 17-[(1-oxo-5-phenyl-2, 4-pentadienyl)oxy]-

[17.alpha., 17(2E, 4E)] - (9CI) (CA INDEX NAME)

MF C31 H34 O3

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 100:115151

REFERENCE 2: 100:115135

L59 ANSWER 33 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **85533-91-1** REGISTRY

CN 2-Pentenedioic acid, 2-(phenylmethyl)-, 1-methyl ester, (E)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C13 H14 O4

LC STN Files: CA, CAPLUS

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 99:18590

L59 ANSWER 34 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **85533-88-6** REGISTRY

CN 2-Pentenedioic acid, 2-(phenylmethyl)-, (E)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C12 H12 O4

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 102:2495

REFERENCE 2: 99:18590

L59 ANSWER 35 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **85533-85-3** REGISTRY

CN 2-Pentenedioic acid, 4-(phenylmethyl)-, (Z)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C12 H12 O4

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 99:18590

L59 ANSWER 36 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **85533-84-2** REGISTRY

CN 2-Pentenedioic acid, 2-(phenylmethyl)-, (Z)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C12 H12 O4

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 99:18590

L59 ANSWER 37 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **85533-83-1** REGISTRY

CN 2-Pentenedioic acid, 4-(phenylmethyl)-, (E)- (9CI). (CA INDEX NAME)

FS STEREOSEARCH

MF C12 H12 O4

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Double bond geometry as shown.

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 99:18590

L59 ANSWER 38 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 81995-43-9 REGISTRY

CN Benzeneacetic acid, 3-carboxy-.alpha.-(3-phenyl-2-propenylidene)-, (E,E)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C18 H14 O4

LC STN Files: CA, CAPLUS, CASREACT

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 97:91946

L59 ANSWER 39 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **52121-98-9** REGISTRY

CN Benzene, (6-iodohexyl) - (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1-Iodo-6-phenylhexane

CN 6-Phenyl-1-iodohexane

CN 6-Phenylhexyl iodide

FS 3D CONCORD

MF C12 H17 I

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

I - (CH₂)₆ - Ph

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

14 REFERENCES IN FILE CA (1967 TO DATE)

14 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:295024

REFERENCE 2: 130:267212

REFERENCE 3: 130:52236

REFERENCE 4: 130:3689

REFERENCE 5: 126:277342

REFERENCE 6: 125:167772

REFERENCE 7: 125:58199

REFERENCE 8: 123:143878

REFERENCE 9: 122:239193

REFERENCE 10: 113:77634

L59 ANSWER 40 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **37566-49-7** REGISTRY

CN 4-Hexyn-3-one, 6-bromo-1-phenyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 6-Bromo-1-phenylhex-4-yn-3-one

FS 3D CONCORD

MF C12 H11 Br O

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 77:71959

L59 ANSWER 41 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN **34807-41-5** REGISTRY

CN 2,4-Pentadienoic acid, 5-phenyl-, (2S,3aR,3bS,3cS,4aR,5S,5aS,8aR,8bR,9R,10 R,10aS)-3a,3b,3c,4a,5,5a,8a,9,10,10a-decahydro-5,5a-dihydroxy-4a- (hydroxymethyl)-7,9-dimethyl-10a-(1-methylethenyl)-6-oxo-2-phenyl-6H-2,8b-epoxyoxireno[6,7]azuleno[5,4-e]-1,3-benzodioxol-10-yl ester, (2E,4E)-

(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Daphnetoxin, 12-[(1-oxo-5-phenyl-2,4-pentadienyl)oxy]-, [12.beta.(2E,4E)]-OTHER NAMES:

CN 2,4-Pentadienoic acid, 5-phenyl-, 3a,3b,3c,4a,5,5a,8a,9,10,10a-decahydro-5,5a-dihydroxy-4a-(hydroxymethyl)-7,9-dimethyl-10a-(1-methylethenyl)-6-oxo-2-phenyl-6H-2,8b-epoxyoxireno[6,7]azuleno[5,4-e]-1,3-benzodioxol-10-yl

ester, [2S-[2.alpha.,3a.beta.,3b.beta.,3c.beta.,4a.beta.,5.beta.,5a.beta.,8a.alpha.,8b.alpha.,9.alpha.,10.beta.(2E,4E),10a.beta.]]-

CN Meserein

CN Mezerein

CN Mezereine

CN NSC 239072

FS STEREOSEARCH

DR 30220-44-1, 32207-09-3

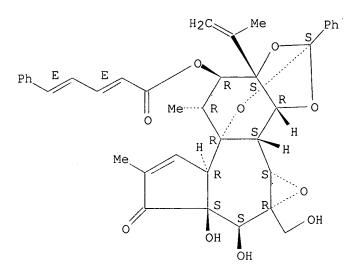
MF C38 H38 O10

CI COM

LC STN Files: ADISINSIGHT, AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CHEMCATS, CIN, CSCHEM, DDFU, DRUGU, EMBASE, MEDLINE, NAPRALERT, NIOSHTIC, PROMT, RTECS*, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+). Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

432 REFERENCES IN FILE CA (1967 TO DATE)
433 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:288676

REFERENCE 2: 136:148710

REFERENCE 3: 136:31428

REFERENCE 4: 136:15800

REFERENCE 5: 135:284382

REFERENCE 6: 134:348688

REFERENCE 7: 134:261200

REFERENCE 8: 134:141737

REFERENCE 9: 134:1524

REFERENCE 10: 133:358827

L59 ANSWER 42 OF 47 REGISTRY COPYRIGHT 2002 ACS

RN 28010-13-1 REGISTRY

CN 2,4-Pentadienoic acid, 5-phenyl-, (Z,E)- (8CI, 9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C11 H10 O2

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX (*File contains numerically searchable property data)

Double bond geometry as shown.

$$HO_2C$$
 \overline{Z} Ph

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 14 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
- 14 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 123:56016

REFERENCE 2: 121:157229

REFERENCE 3: 116:151455

REFERENCE 4: 116:2232

REFERENCE 5: 110:121165

REFERENCE 6: 107:77283

REFERENCE 7: 96:104596

REFERENCE 8: 94:151746

REFERENCE 9: 93:203839

REFERENCE 10: 91:210563

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RN 28010-12-0 REGISTRY

CN 2,4-Pentadienoic acid, 5-phenyl-, (2E,4E)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4-Pentadienoic acid, 5-phenyl-, (E,E)- (8CI)

OTHER NAMES:

CN (2E,4E)-5-Phenyl-2,4-pentadienoic acid

CN (2E, 4E) - Cinnamylideneacetic acid

CN (E,E)-5-Phenyl-2,4-pentadienoic acid

CN .alpha.-trans-.gamma.-trans-.beta.-Styrylacrylic acid

CN 5-Phenyl-2E, 4E-pentadienoic acid

CN 5-Phenyl-trans-2, trans-4-pentadienoic acid

FS STEREOSEARCH

MF C11 H10 O2

CI COM

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

50 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

50 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:294651

REFERENCE 2: 136:279218

REFERENCE 3: 135:366118

REFERENCE 4: 135:195169

REFERENCE 5: 135:192530

REFERENCE 6: 134:280547

REFERENCE 7: 132:307866

REFERENCE 8: 131:322807

REFERENCE 9: 130:95351

REFERENCE 10: 130:52013

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RN **20371-41-9** REGISTRY

CN Benzenepentanoyl chloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Valeryl chloride, 5-phenyl- (8CI)

OTHER NAMES:

CN 5-Phenylpentanoyl chloride

CN 5-Phenylvaleryl chloride

FS 3D CONCORD

MF C11 H13 C1 O

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

65 REFERENCES IN FILE CA (1967 TO DATE) 65 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:282685

REFERENCE 2: 135:253261

REFERENCE 3: 135:210837

REFERENCE 4: 135:92538

REFERENCE 5: 133:321879

REFERENCE 6: 132:264741

REFERENCE 7: 132:208142

REFERENCE 8: 132:78577

REFERENCE 9: 131:351322

REFERENCE 10: 131:214285

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RN **14377-66-3** REGISTRY

CN Benzeneacetonitrile, .alpha.-(5-chloropentyl)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Heptanenitrile, 7-chloro-2-phenyl- (8CI)

FS 3D CONCORD

MF C13 H16 C1 N

LC STN Files: BEILSTEIN*, CA, CAPLUS, USPATFULL

(*File contains numerically searchable property data)

Ph | |NC-CH-(CH₂)5-Cl

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:74591

REFERENCE 2: 120:244331

REFERENCE 3: 66:94792

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RN **7236-47-7** REGISTRY

CN 3-Butenamide, 3-methyl-4-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME) OTHER NAMES:

```
CN
     .beta.-Benzalbutyramide
     3-Methyl-4-phenyl-3-butenamide
CN
     3-Methyl-4-phenyl-3-butenoic acid amide
CN
     Kata-Lipid
CN
     Lipidemol
CN
CN
     Lipobeta
     3D CONCORD
FS
     C11 H13 N O
MF
                  BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST,
LC
     STN Files:
       CSCHEM, HODOC*, IPA, MEDLINE, MRCK*, TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
                      EINECS**
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
        Ме
                0
Ph-CH=C-CH2-C-NH2
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
              17 REFERENCES IN FILE CA (1967 TO DATE)
              17 REFERENCES IN FILE CAPLUS (1967 TO DATE)
              10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
REFERENCE
            1: 136:273206
REFERENCE
            2:
                134:530
REFERENCE
            3:
                132:73218
REFERENCE
            4:
                88:16047
                81:169330
REFERENCE:
            5:
REFERENCE
                76:43361
            6:
REFERENCE
            7:
                75:86118
REFERENCE
            8:
                72:131022
REFERENCE
            9:
                72:120015
REFERENCE
          10:
                72:88824
     ANSWER 47 OF 47 REGISTRY COPYRIGHT 2002 ACS
L59
RN
     1516-24-1 REGISTRY
                                                                           (CA
     2,4-Pentadienoic acid, 5-phenyl-, methyl ester (6CI, 7CI, 8CI, 9CI)
CN
     INDEX NAME)
OTHER NAMES:
CN
     Methyl 4-phenylbutadienecarboxylate
CN
     Methyl 5-phenyl-2,4-pentadienoate
FS
     3D CONCORD
     C12 H12 O2
MF
     STN Files:
                  BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMINFORMRX,
LC
       HODOC*, USPATFULL
         (*File contains numerically searchable property data)
```

20 REFERENCES IN FILE CA (1967 TO DATE)
20 REFERENCES IN FILE CAPLUS (1967 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 130:81047

REFERENCE 2: 127:304705

REFERENCE 3: 125:85964

REFERENCE 4: 125:58265

REFERENCE 5: 124:202303

REFERENCE 6: 119:8882

REFERENCE 7: 113:114384

REFERENCE 8: 110:8600

REFERENCE 9: 108:21792

REFERENCE 10: 106:84485